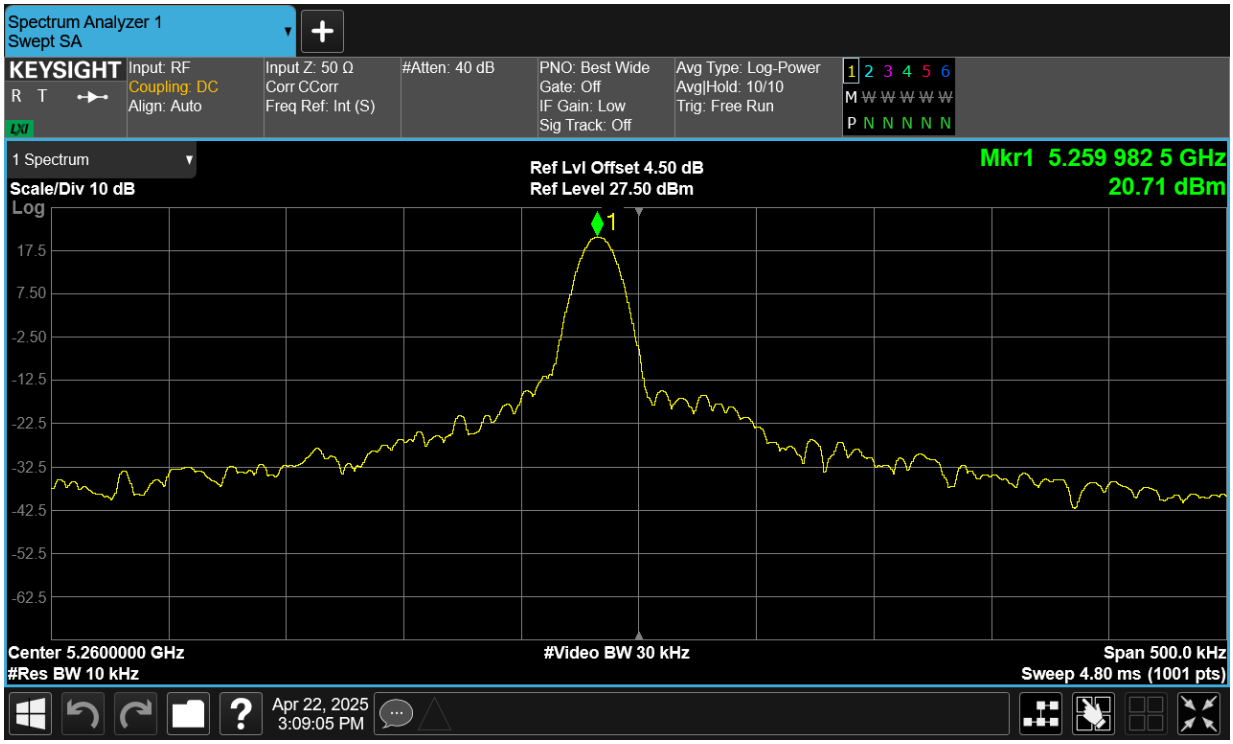
Test Data

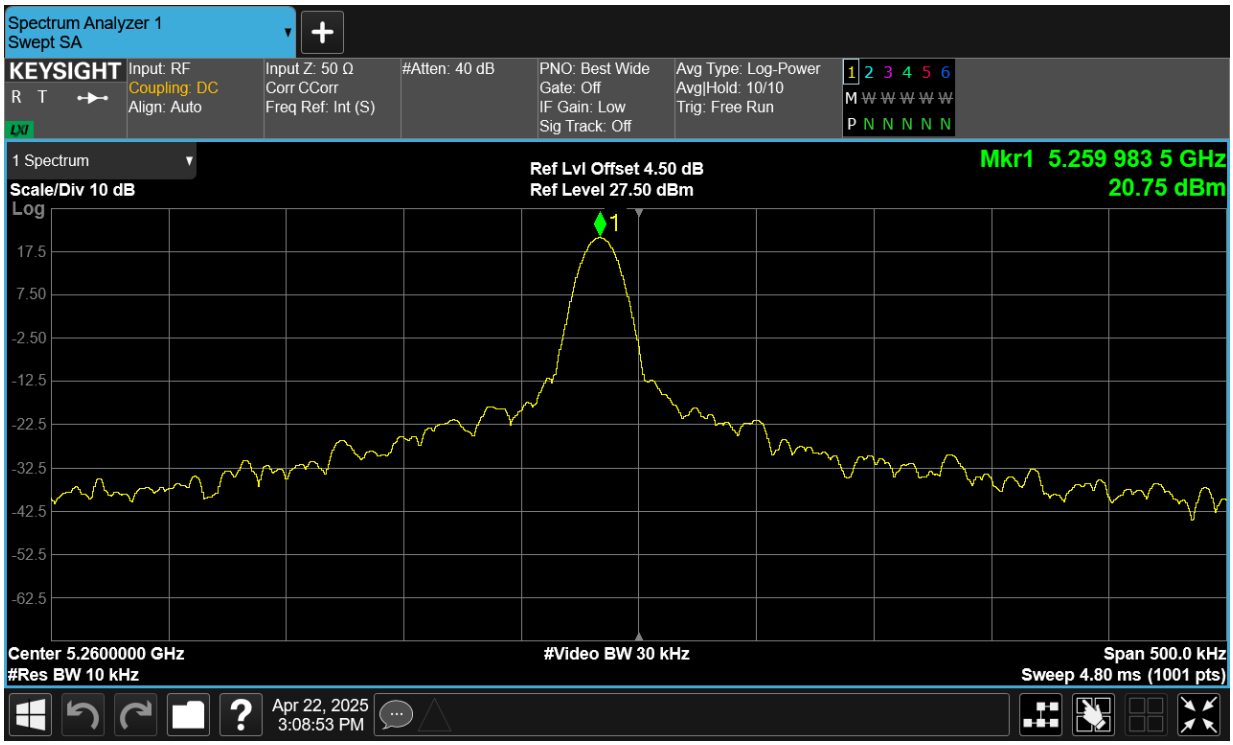
Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Deviation (ppm)	Limit (ppm)	Verdict
HVNT	a	5260	Ant3	5259.9825	-3.33	Within authorized band	Pass
LVNT	a	5260	Ant3	5259.9835	-3.14		Pass
NVHT	a	5260	Ant3	5259.9845	-2.95		Pass
NVLT	a	5260	Ant3	5259.985	-2.85		Pass
NVNT	a	5260	Ant3	5259.9865	-2.57		Pass
HVNT	ac80	5290	Ant3	5289.9815	-3.5		Pass
LVNT	ac80	5290	Ant3	5289.9815	-3.5		Pass
NVHT	ac80	5290	Ant3	5289.982	-3.4		Pass
NVLT	ac80	5290	Ant3	5289.9825	-3.31		Pass
NVNT	ac80	5290	Ant3	5289.983	-3.21		Pass
HVNT	n40	5270	Ant3	5269.982	-3.42		Pass
LVNT	n40	5270	Ant3	5269.9825	-3.32		Pass
NVHT	n40	5270	Ant3	5269.983	-3.23		Pass
NVLT	n40	5270	Ant3	5269.983	-3.23		Pass
NVNT	n40	5270	Ant3	5269.9835	-3.13		Pass
Remark: “NTNV” means Normal Temperature Normal Voltage, “NVHT” means Normal Voltage High Temperature, “NVLT” means Normal Voltage Low. Temperature, “LVNT” means Low Voltage Normal Temperature, “HVNT” means High Voltage Normal Temperature.							

Test Graphs
Freq. Stability HVNT a 5260MHz Ant3

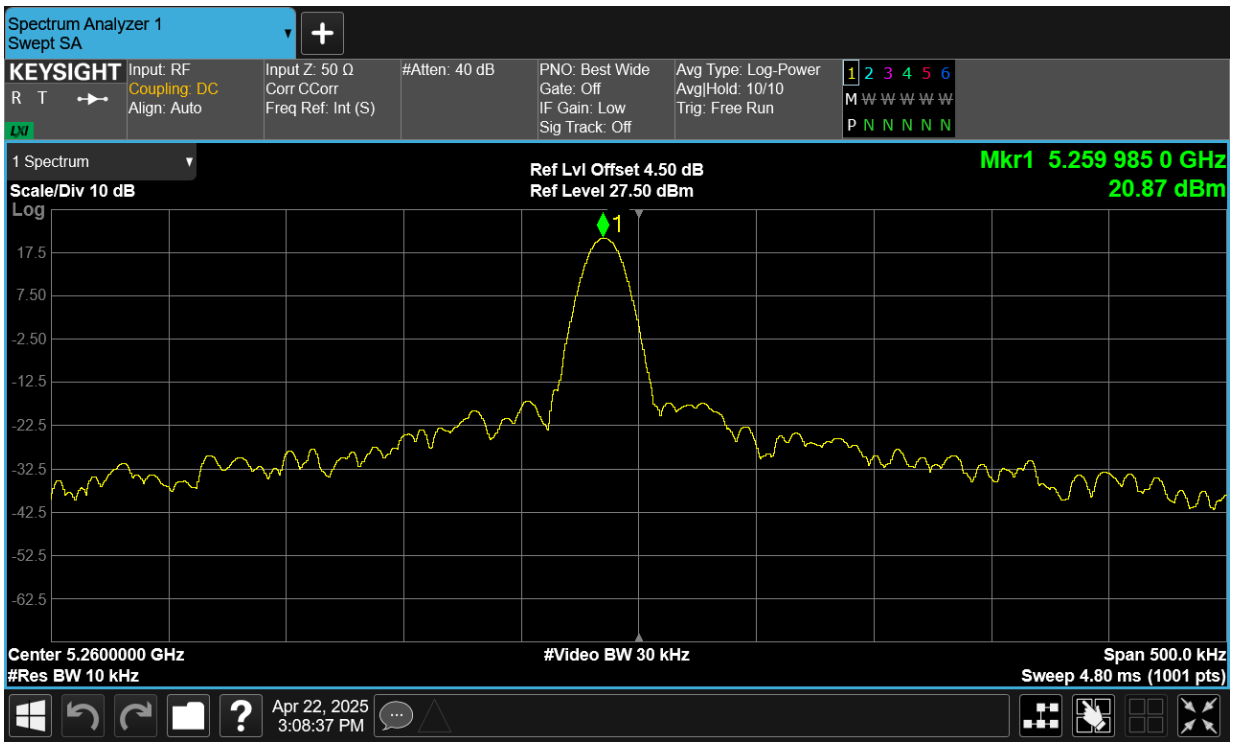


Freq. Stability LVNT a 5260MHz Ant3

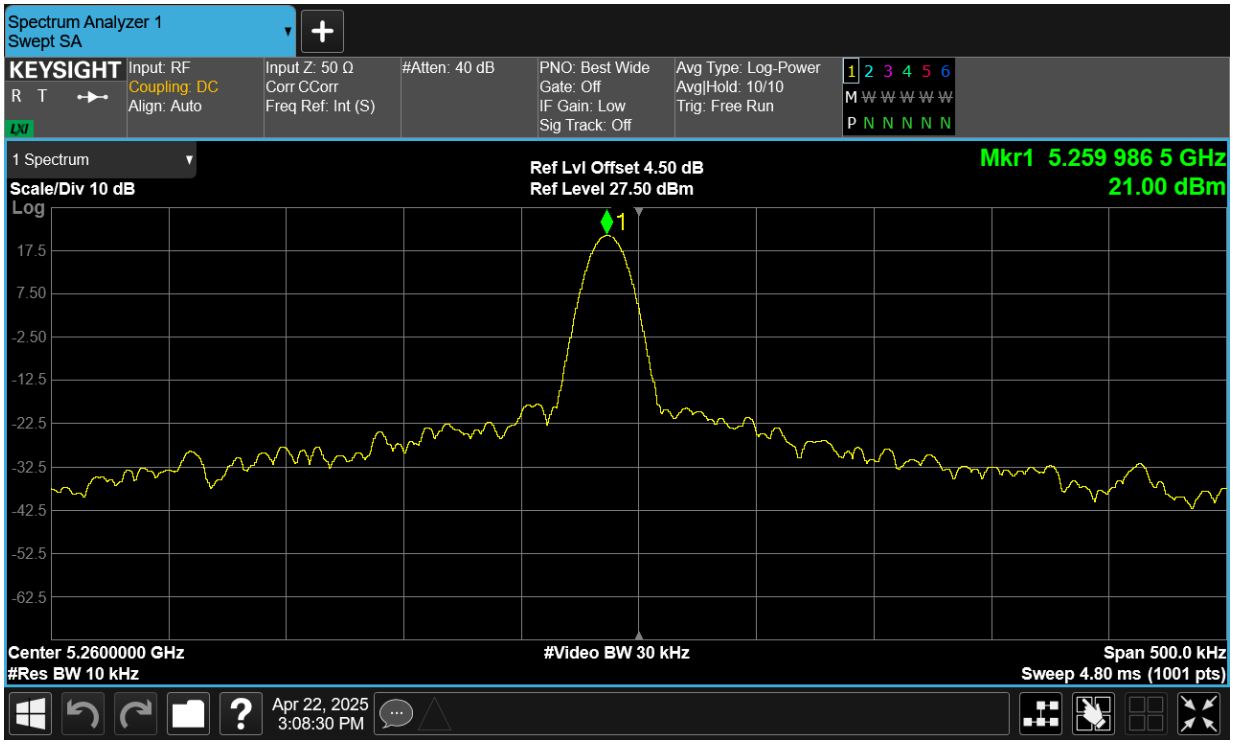


Freq. Stability NVHT a 5260MHz Ant3

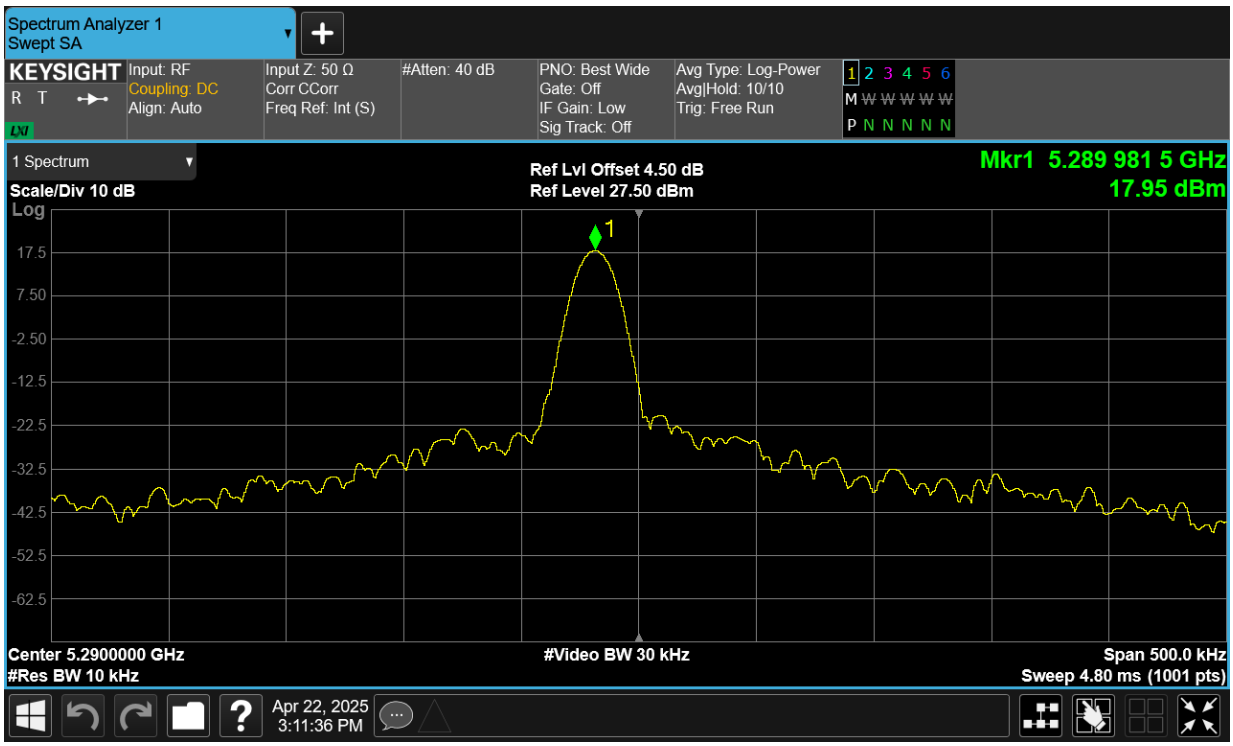
Freq. Stability NVLT a 5260MHz Ant3



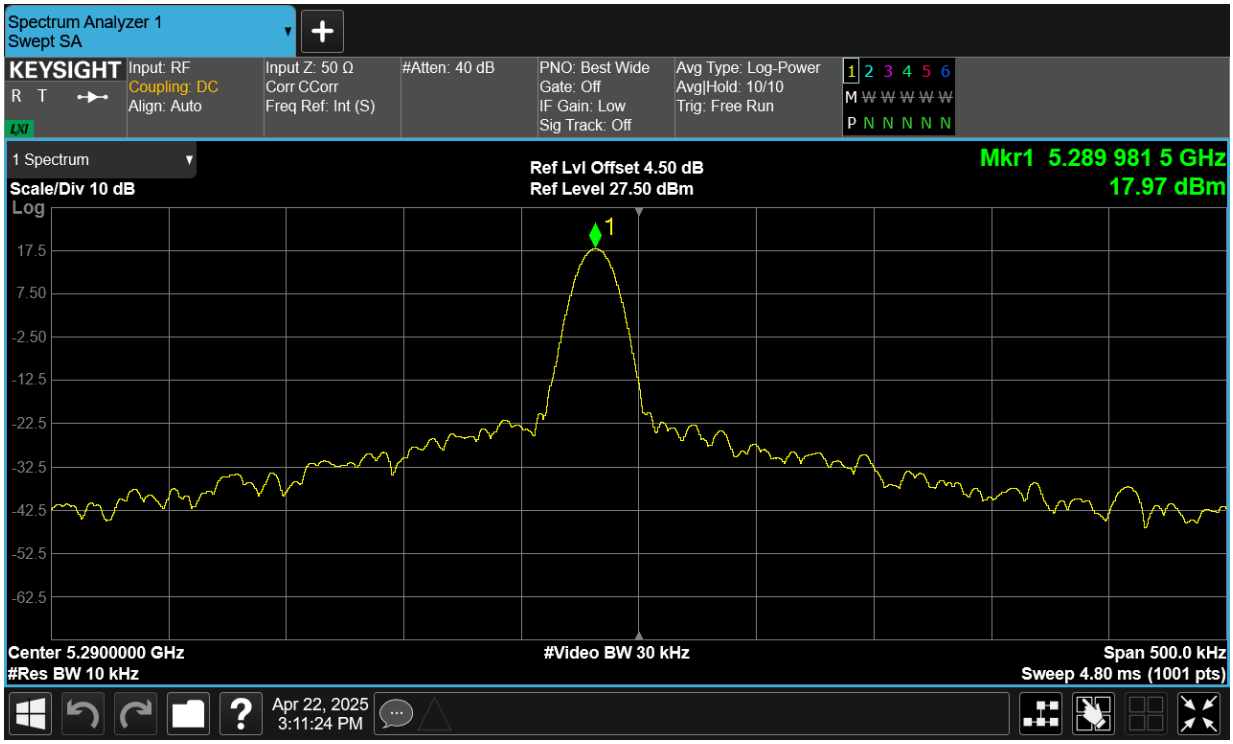
Freq. Stability NVNT a 5260MHz Ant3



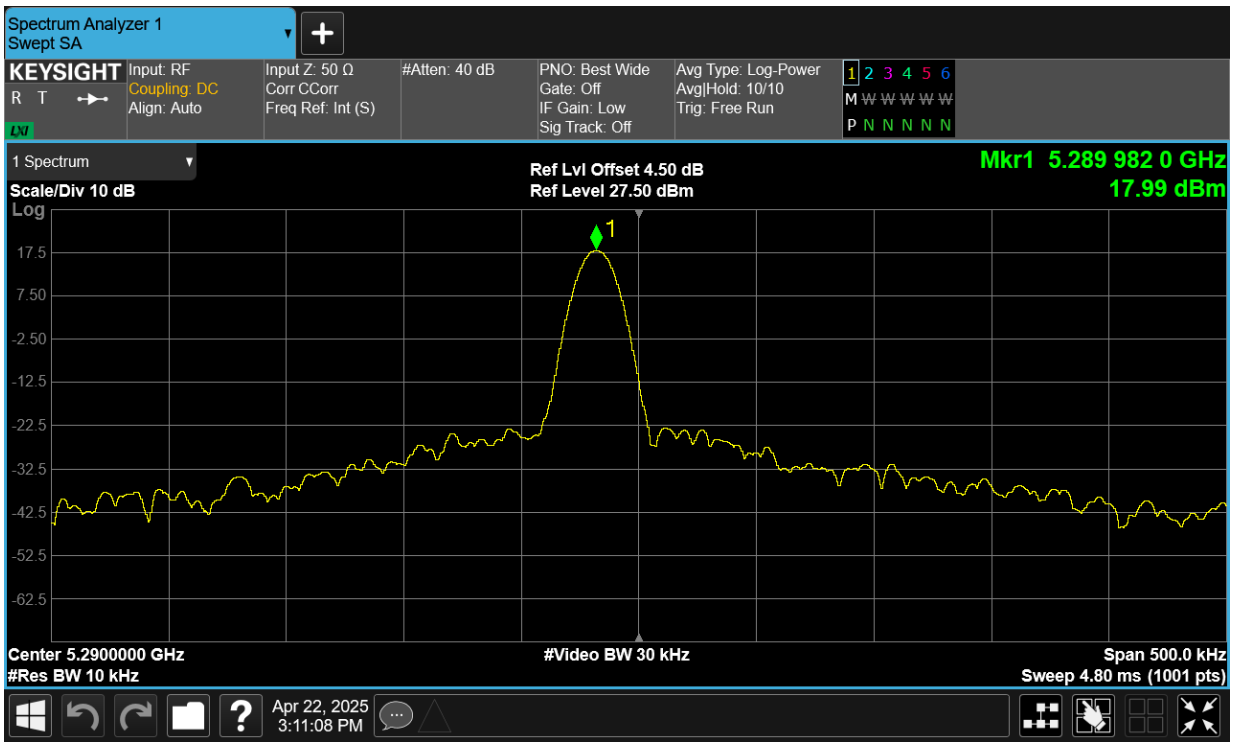
Freq. Stability HVNT ac80 5290MHz Ant3



Freq. Stability LVNT ac80 5290MHz Ant3

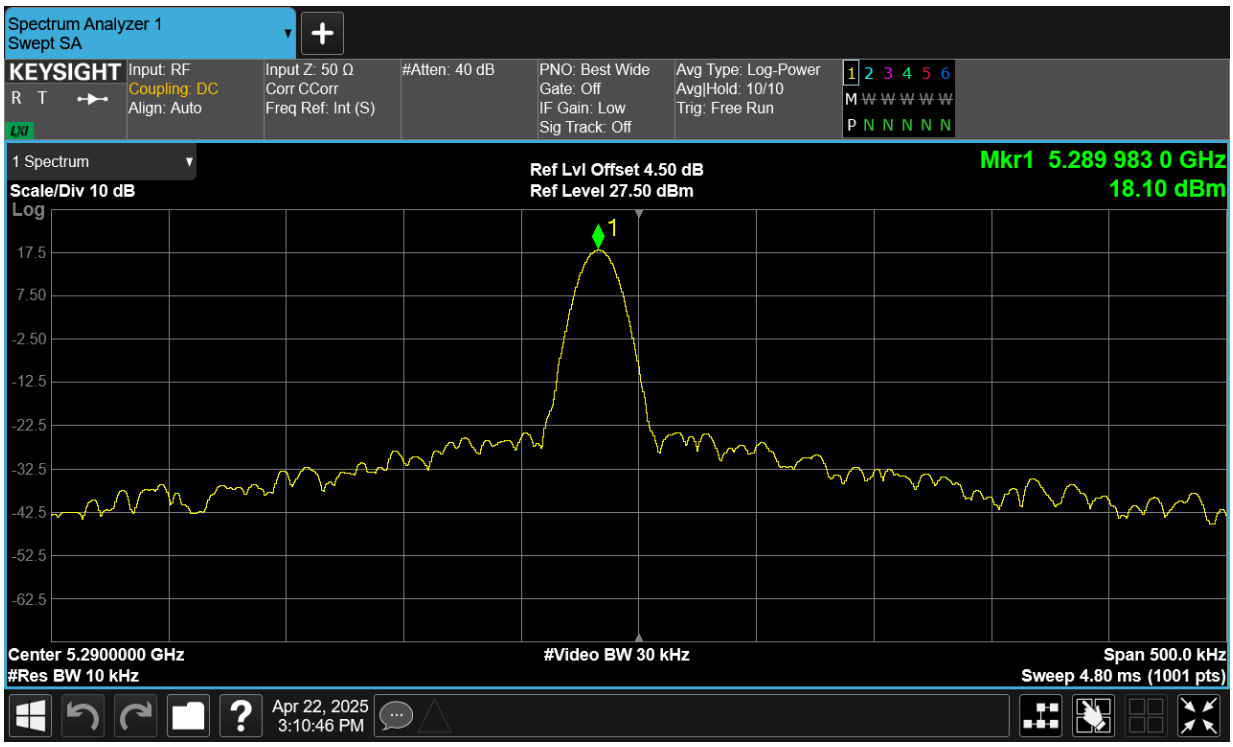


Freq. Stability NVHT ac80 5290MHz Ant3



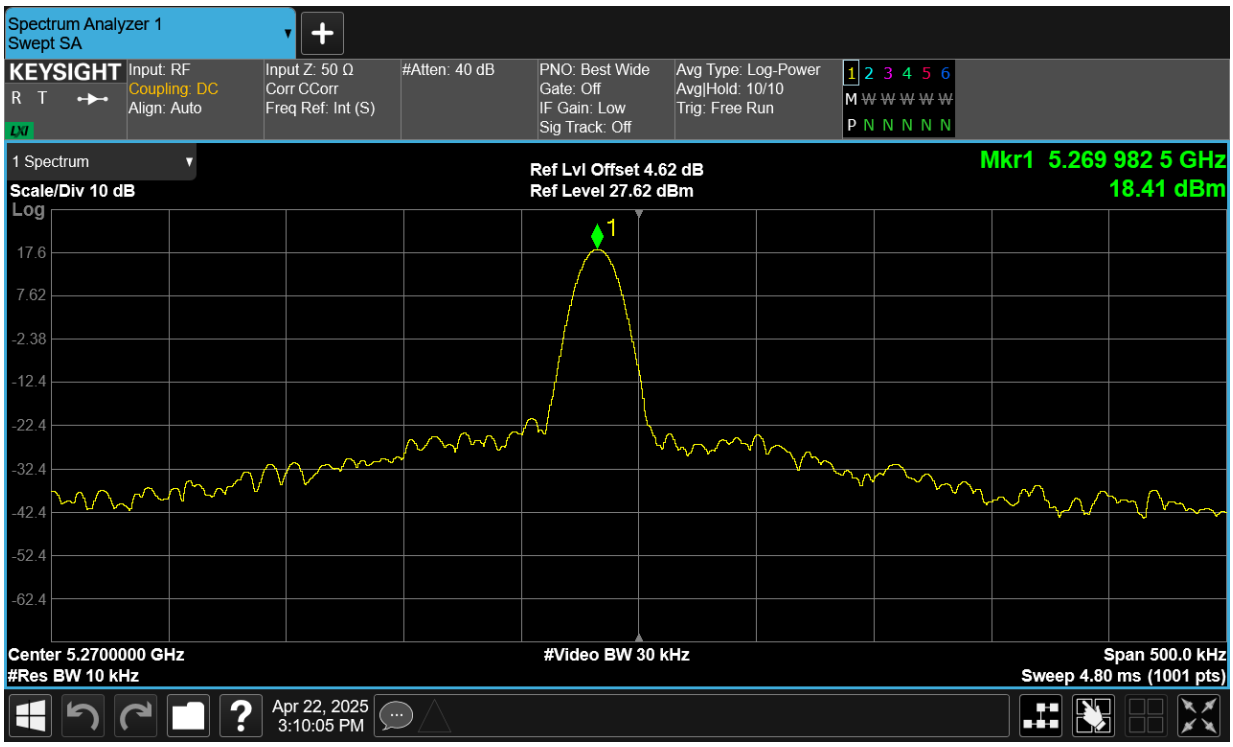
Freq. Stability NVLT ac80 5290MHz Ant3

Freq. Stability NVNT ac80 5290MHz Ant3



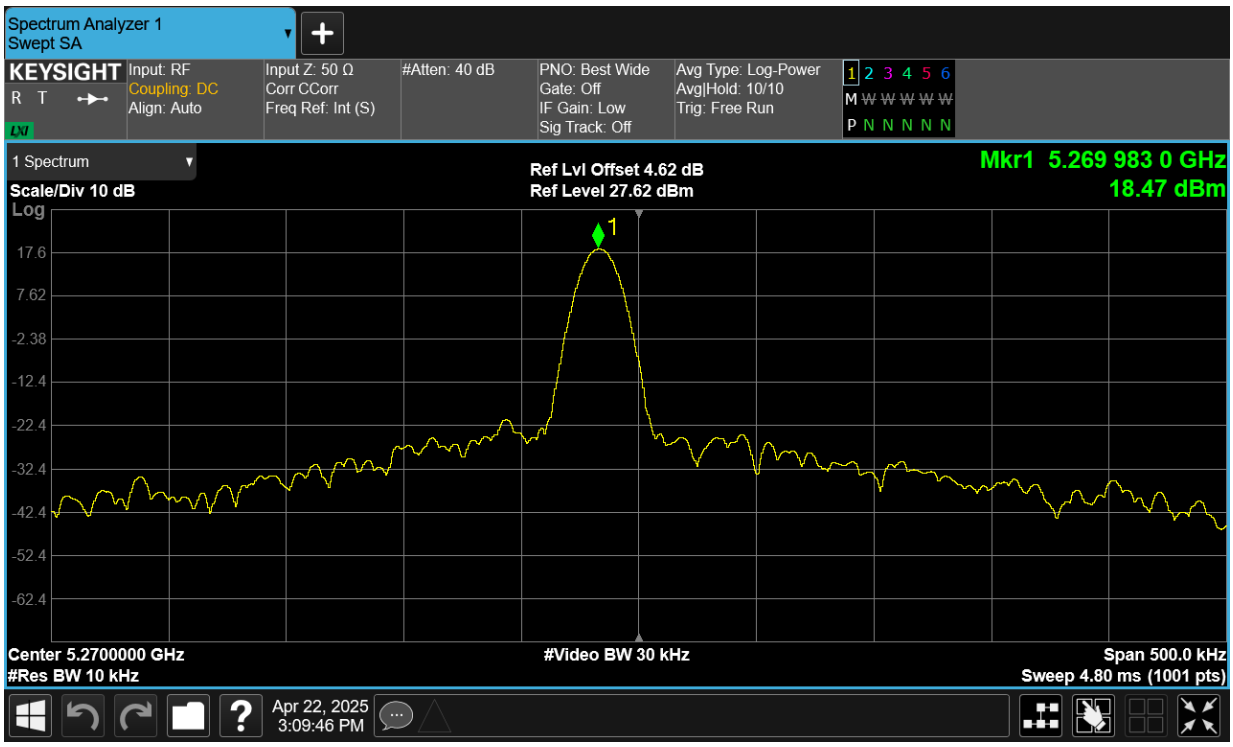
Freq. Stability HVNT n40 5270MHz Ant3

Freq. Stability LVNT n40 5270MHz Ant3

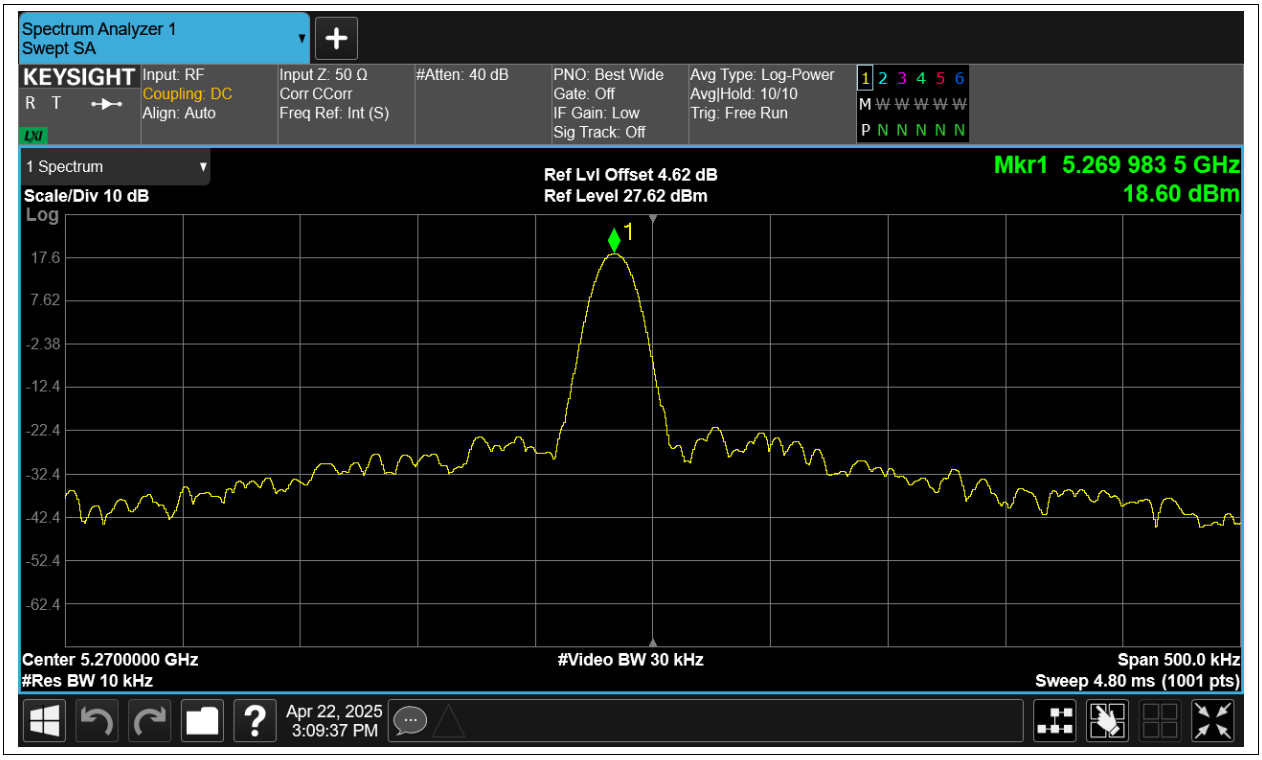


Freq. Stability NVHT n40 5270MHz Ant3

Freq. Stability NVLT n40 5270MHz Ant3



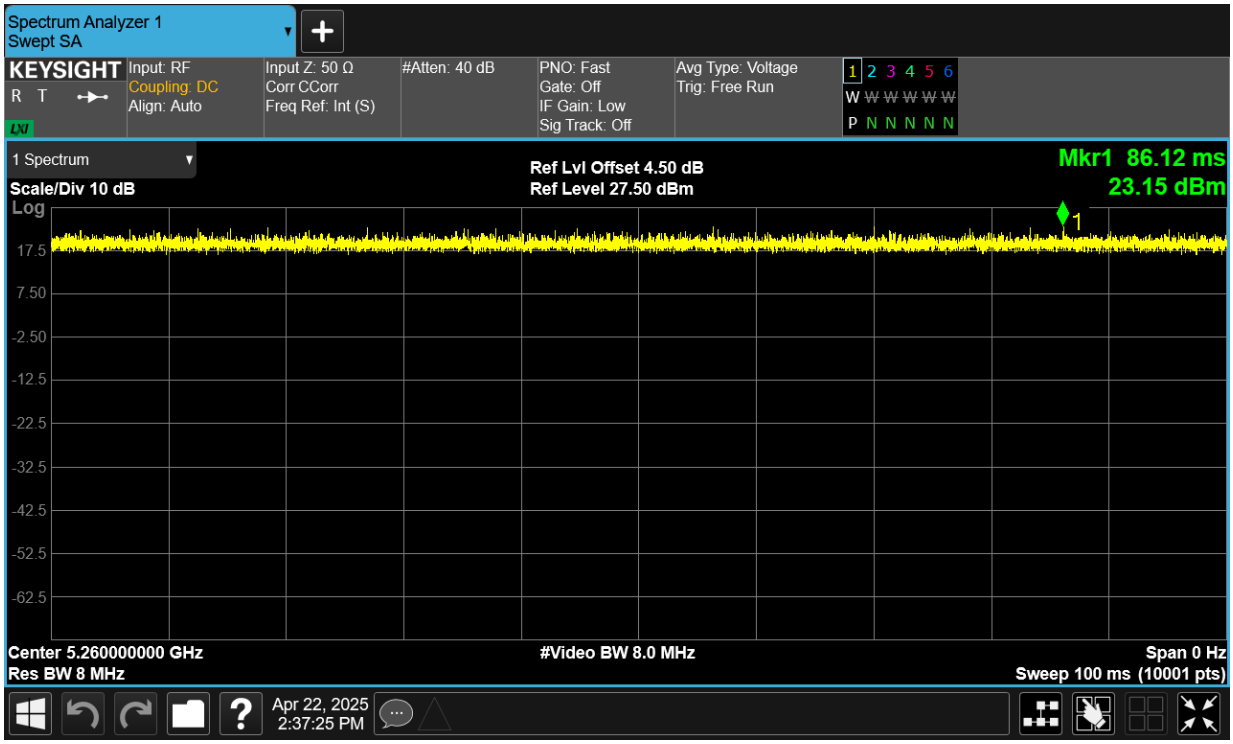
Freq. Stability NVNT n40 5270MHz Ant3


Spectrum Analyzer 1
Swept SA
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 40 dB
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
Avg Type: Log-Power
Avg|Hold: 10/10
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 4.62 dB
Ref Level 27.62 dBm
Mkr1 5.269 983 5 GHz
18.60 dBm
Log
17.6
7.62
-2.38
-12.4
-22.4
-32.4
-42.4
-52.4
-62.4
Center 5.2700000 GHz
#Res BW 10 kHz
#Video BW 30 kHz
Span 500.0 kHz
Sweep 4.80 ms (1001 pts)
Apr 22, 2025
3:09:37 PM

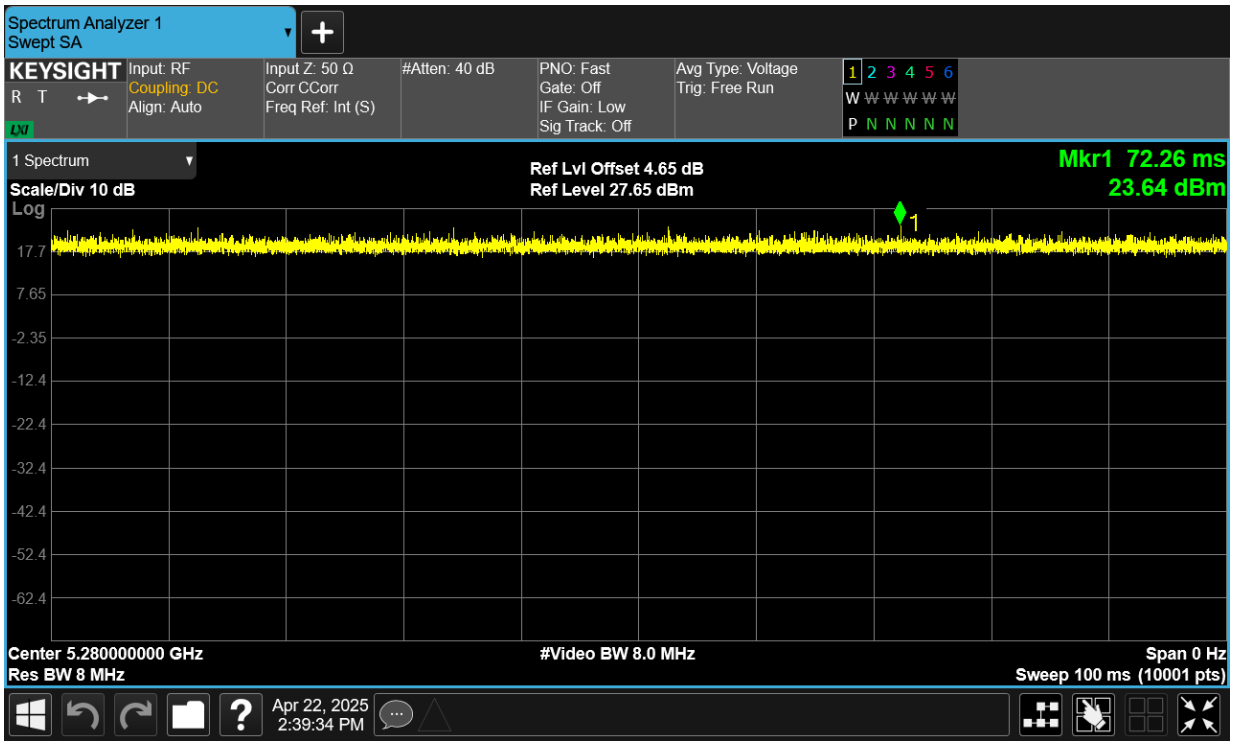
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5260	Ant3	100	0
NVNT	a	5280	Ant3	100	0
NVNT	a	5320	Ant3	100	0
NVNT	ac20	5260	Ant3	100	0
NVNT	ac20	5280	Ant3	100	0
NVNT	ac20	5320	Ant3	100	0
NVNT	ac40	5270	Ant3	100	0
NVNT	ac40	5310	Ant3	100	0
NVNT	ac80	5290	Ant3	100	0
NVNT	n20	5260	Ant3	100	0
NVNT	n20	5280	Ant3	100	0
NVNT	n20	5320	Ant3	100	0
NVNT	n40	5270	Ant3	100	0
NVNT	n40	5310	Ant3	100	0

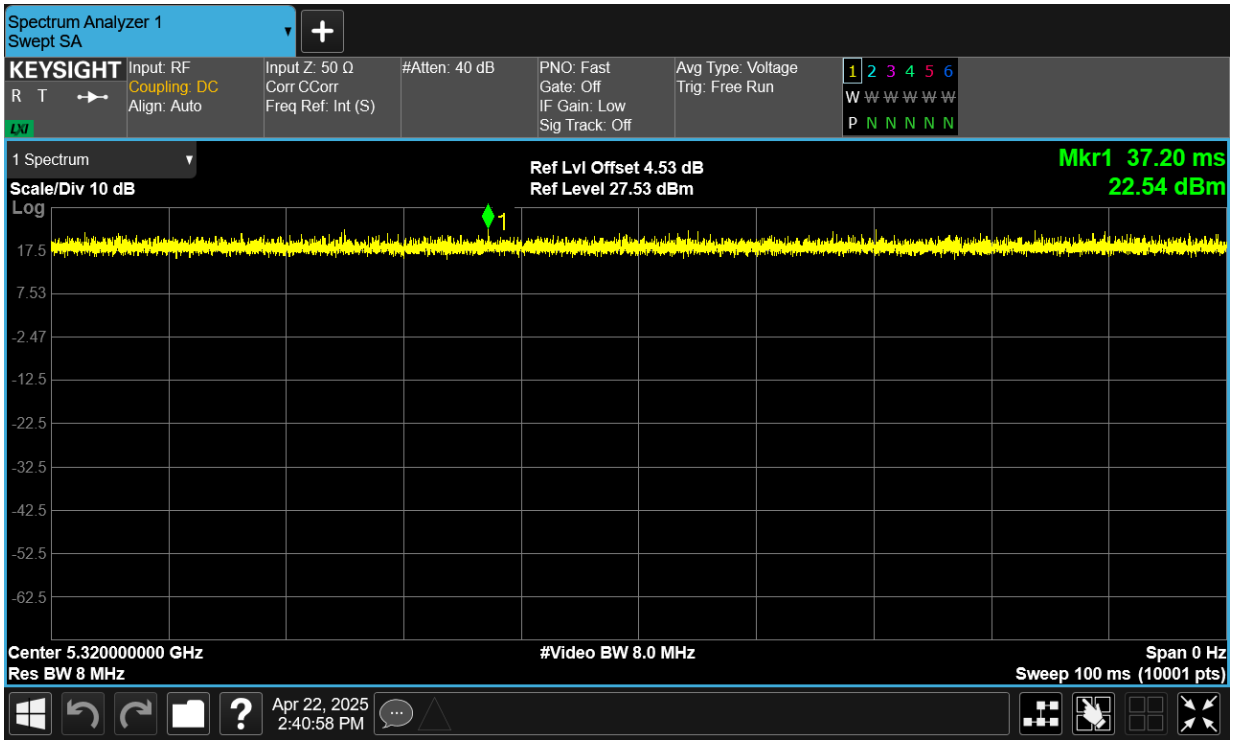
Test Graphs
Duty Cycle NVNT a 5260MHz Ant3



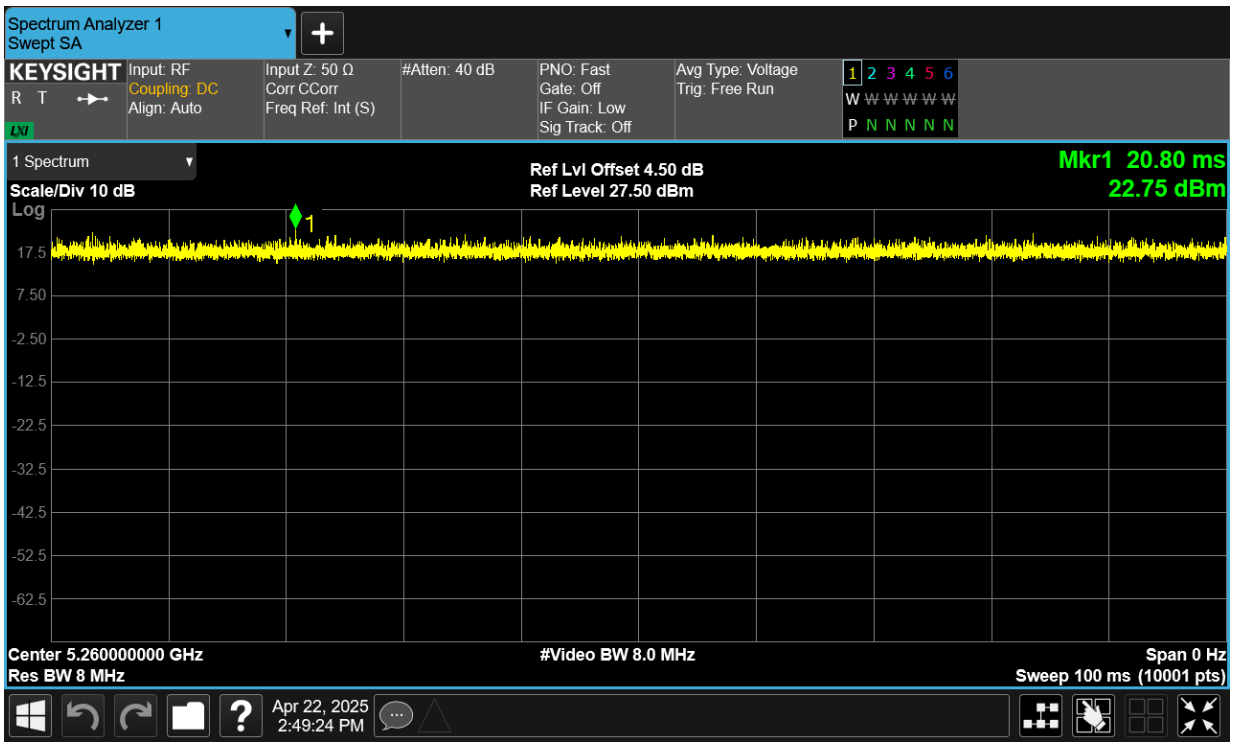
Duty Cycle NVNT a 5280MHz Ant3



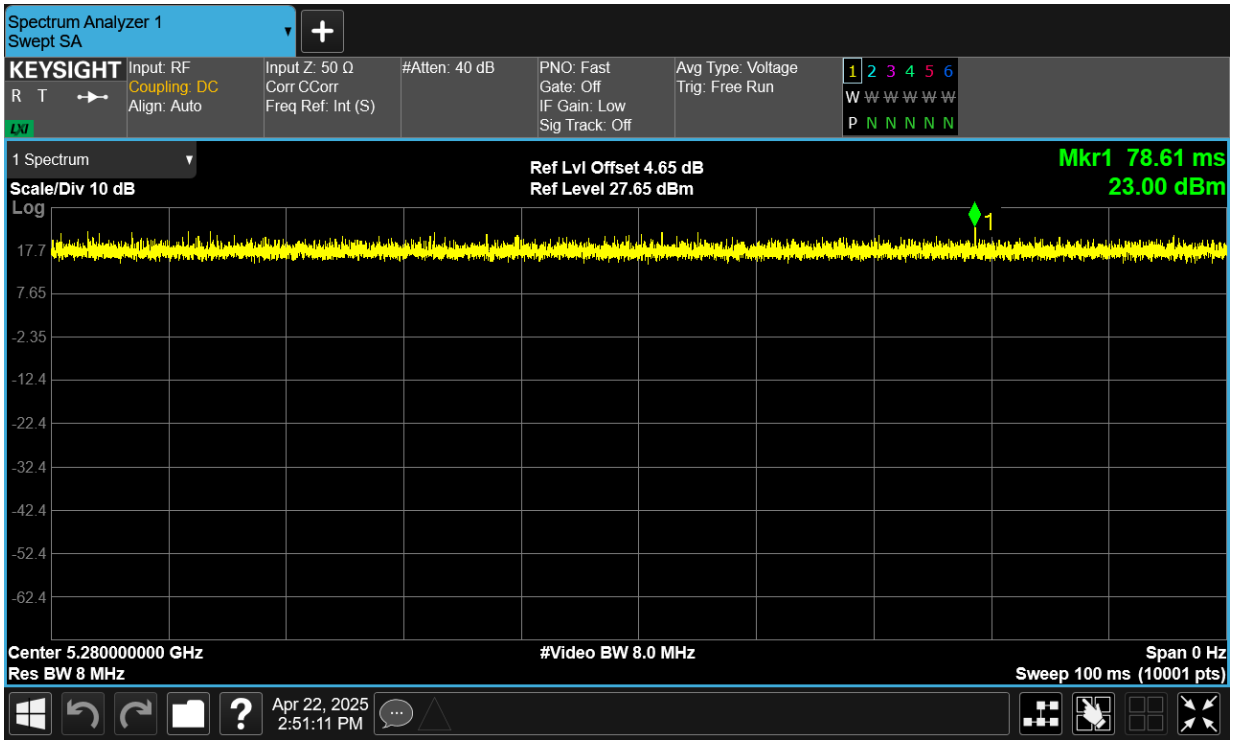
Duty Cycle NVNT a 5320MHz Ant3



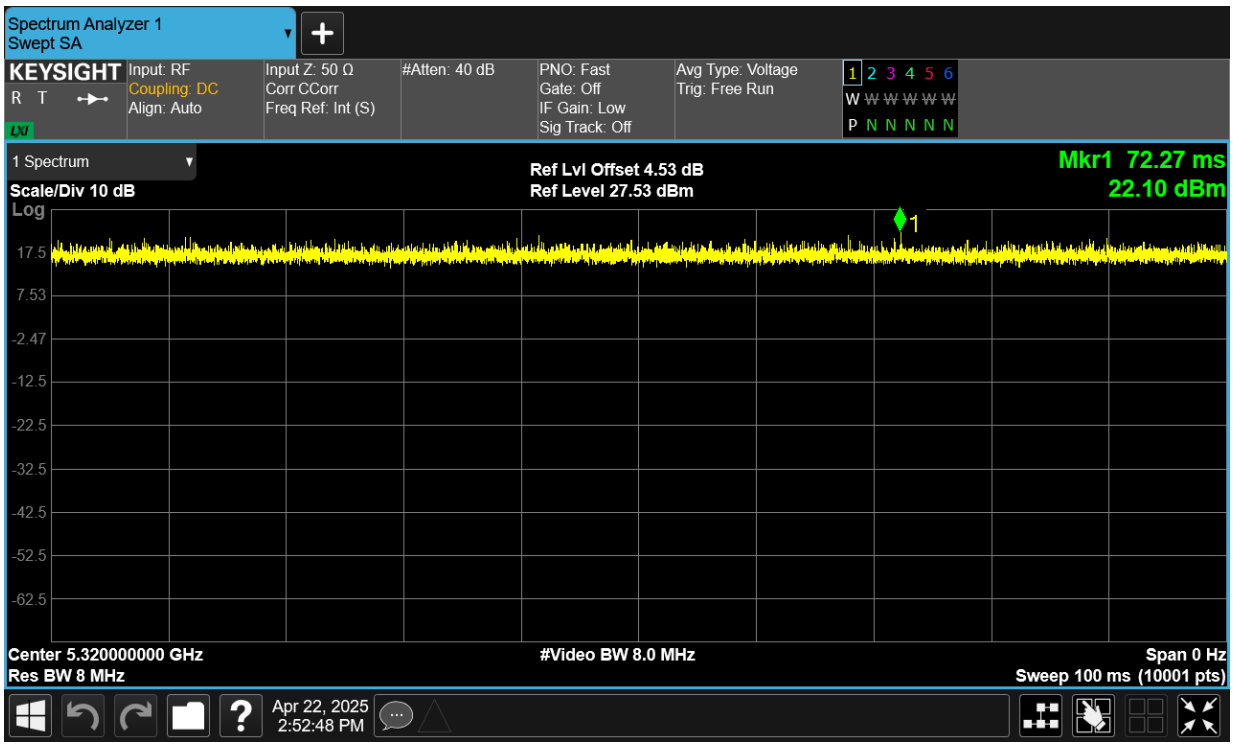
Duty Cycle NVNT ac20 5260MHz Ant3



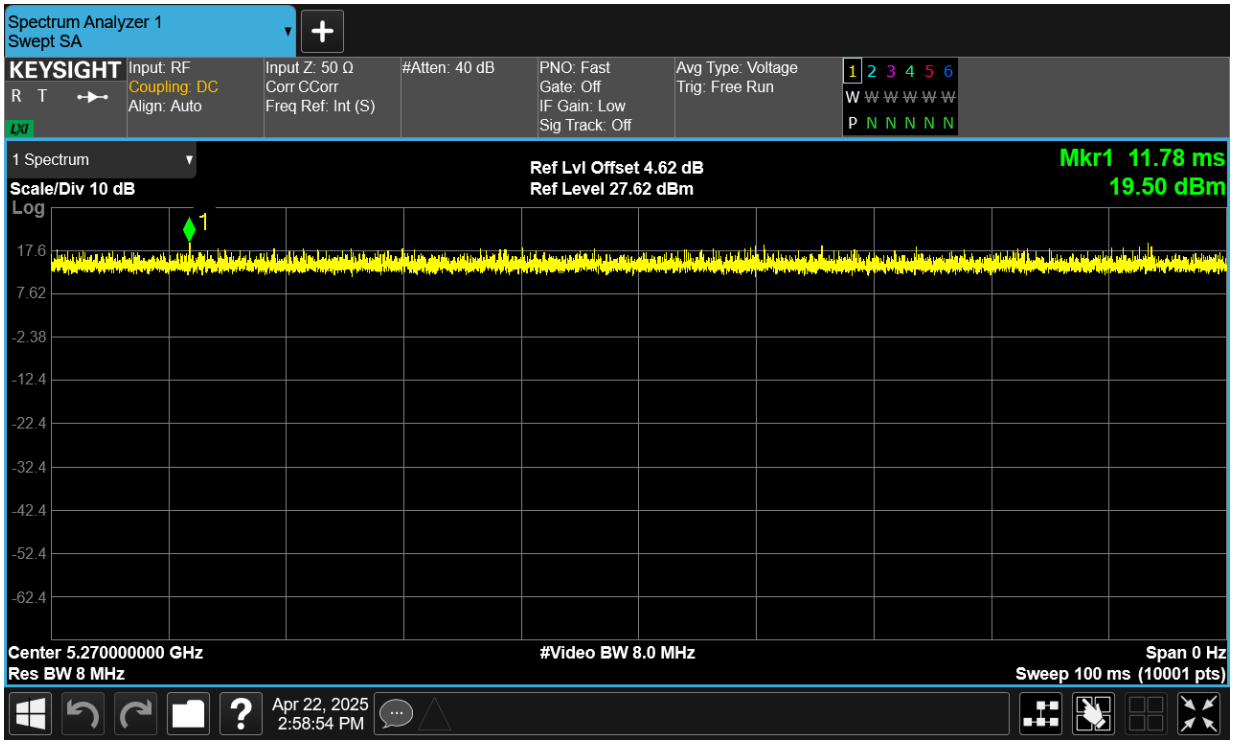
Duty Cycle NVNT ac20 5280MHz Ant3



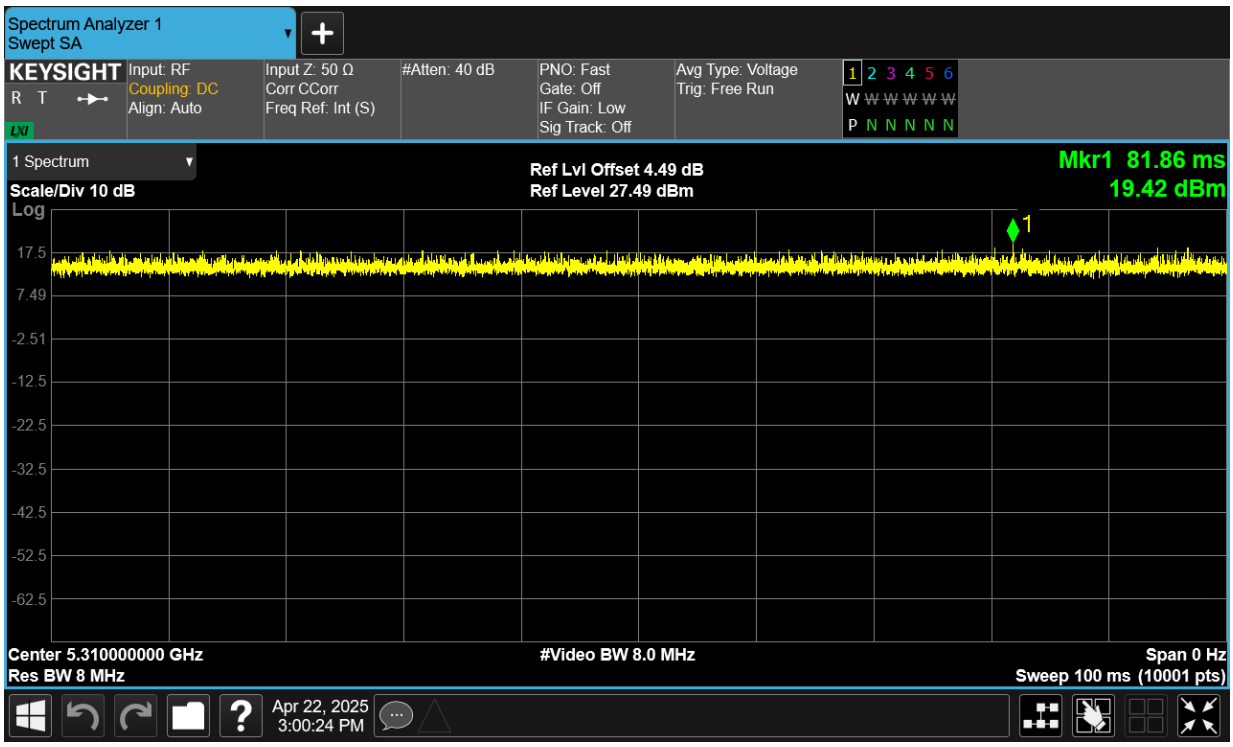
Duty Cycle NVNT ac20 5320MHz Ant3



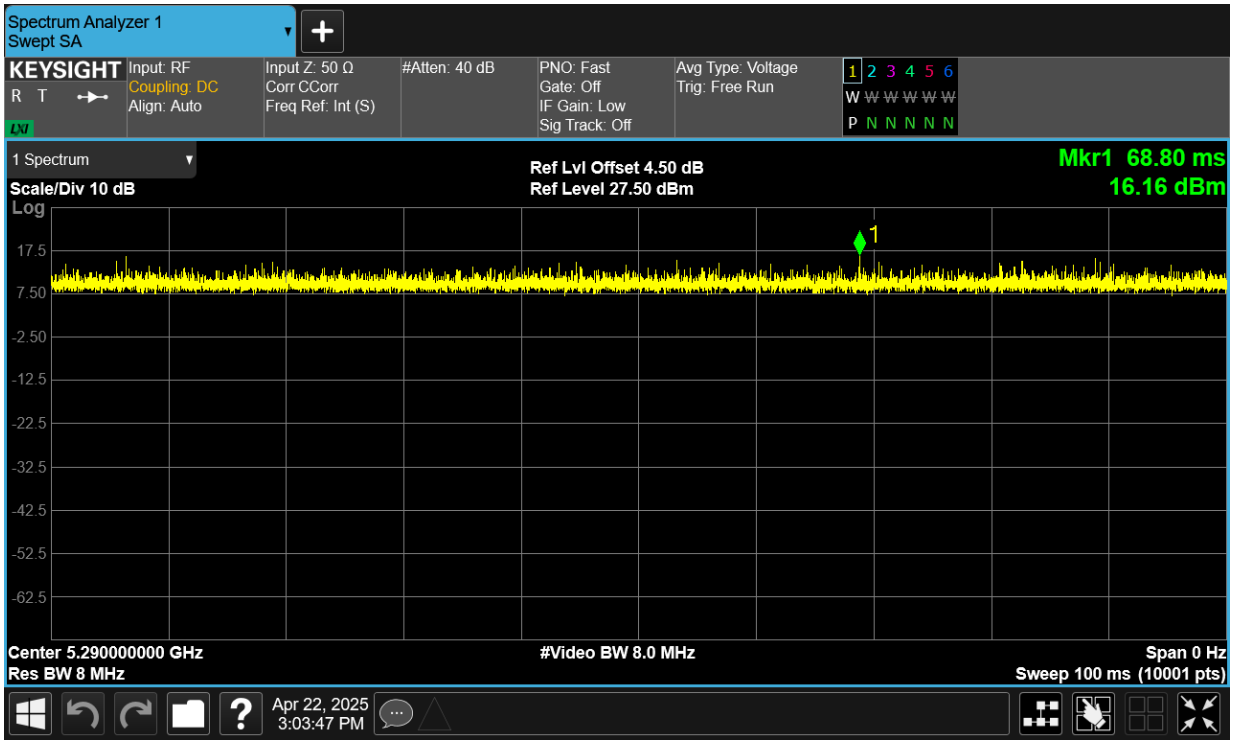
Duty Cycle NVNT ac40 5270MHz Ant3



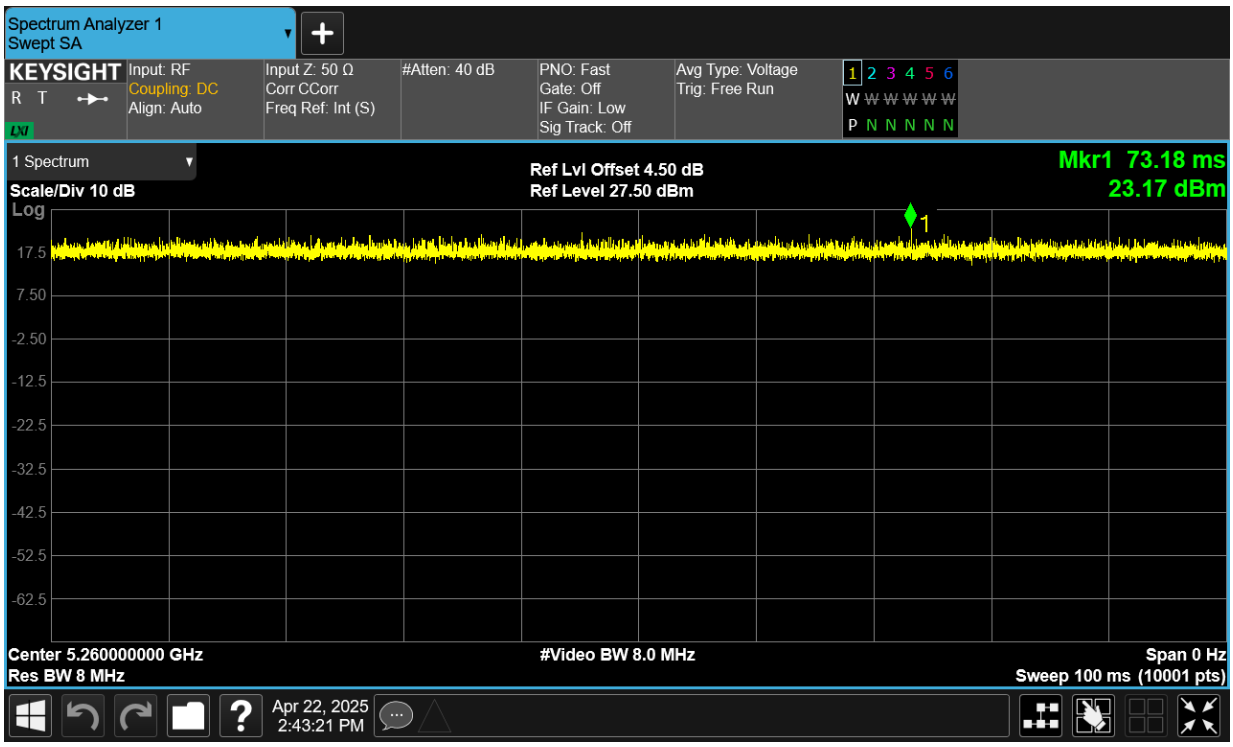
Duty Cycle NVNT ac40 5310MHz Ant3



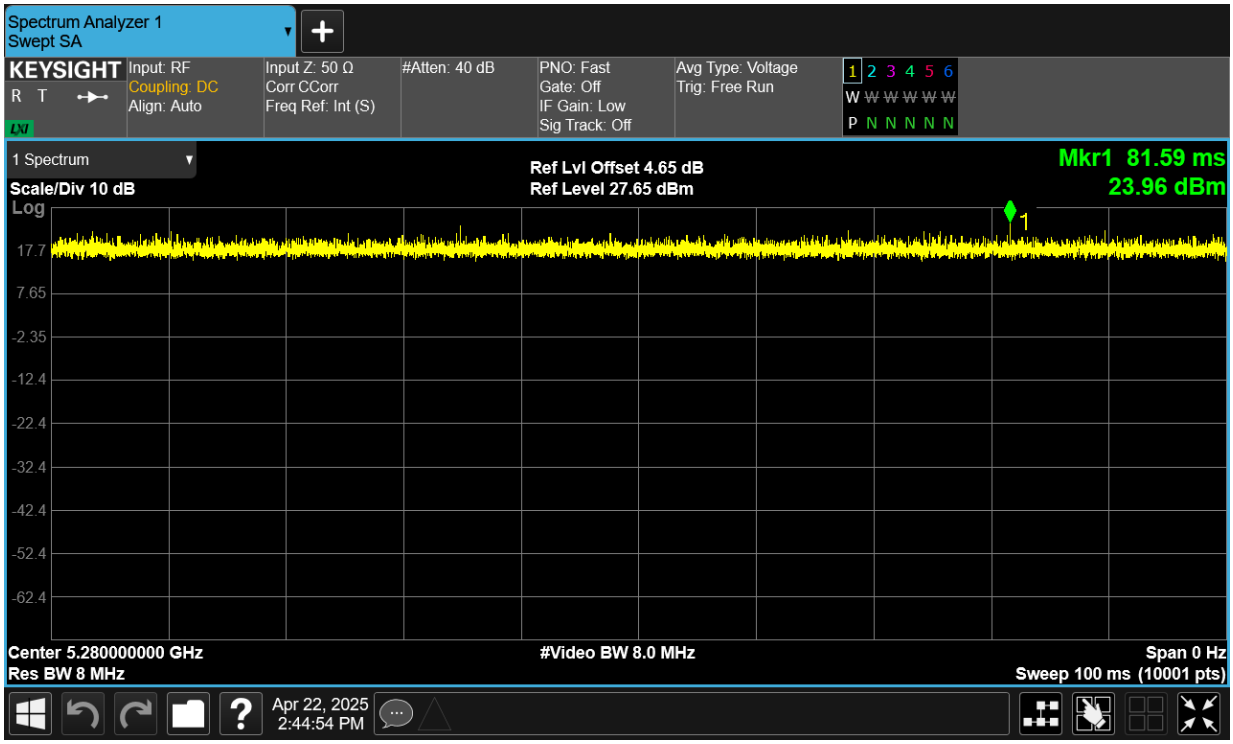
Duty Cycle NVNT ac80 5290MHz Ant3



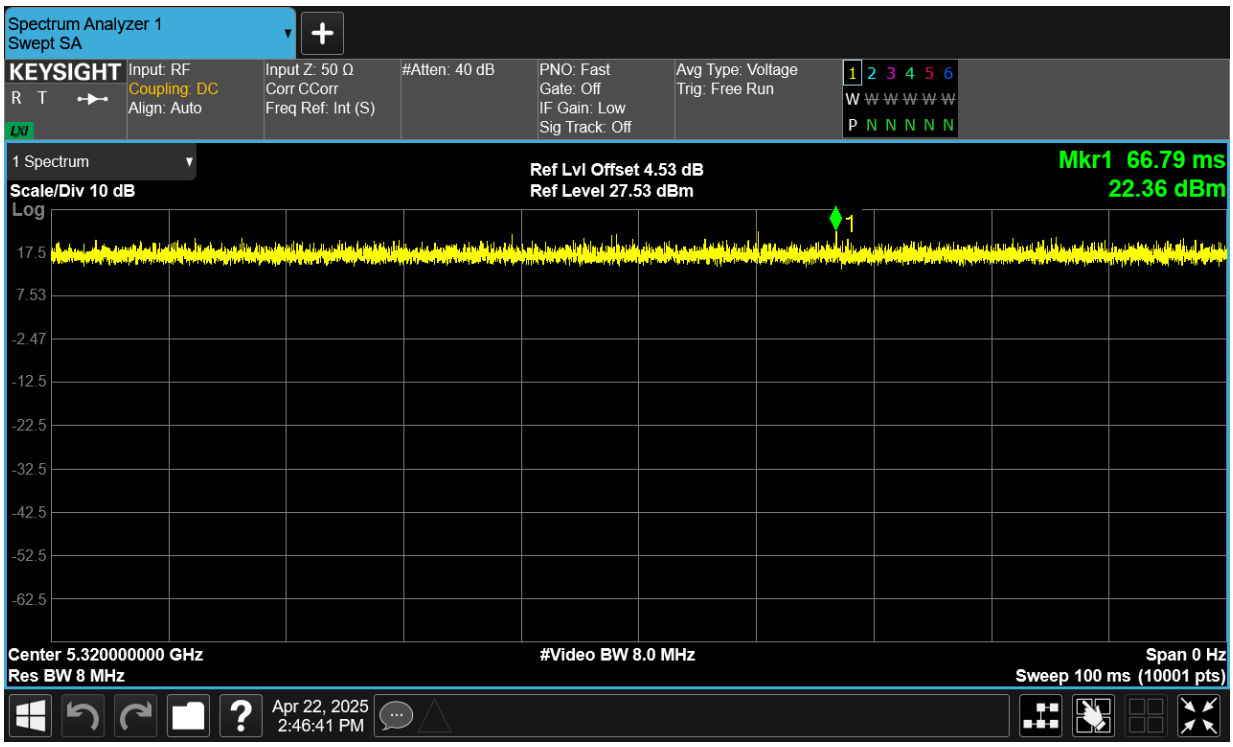
Duty Cycle NVNT n20 5260MHz Ant3



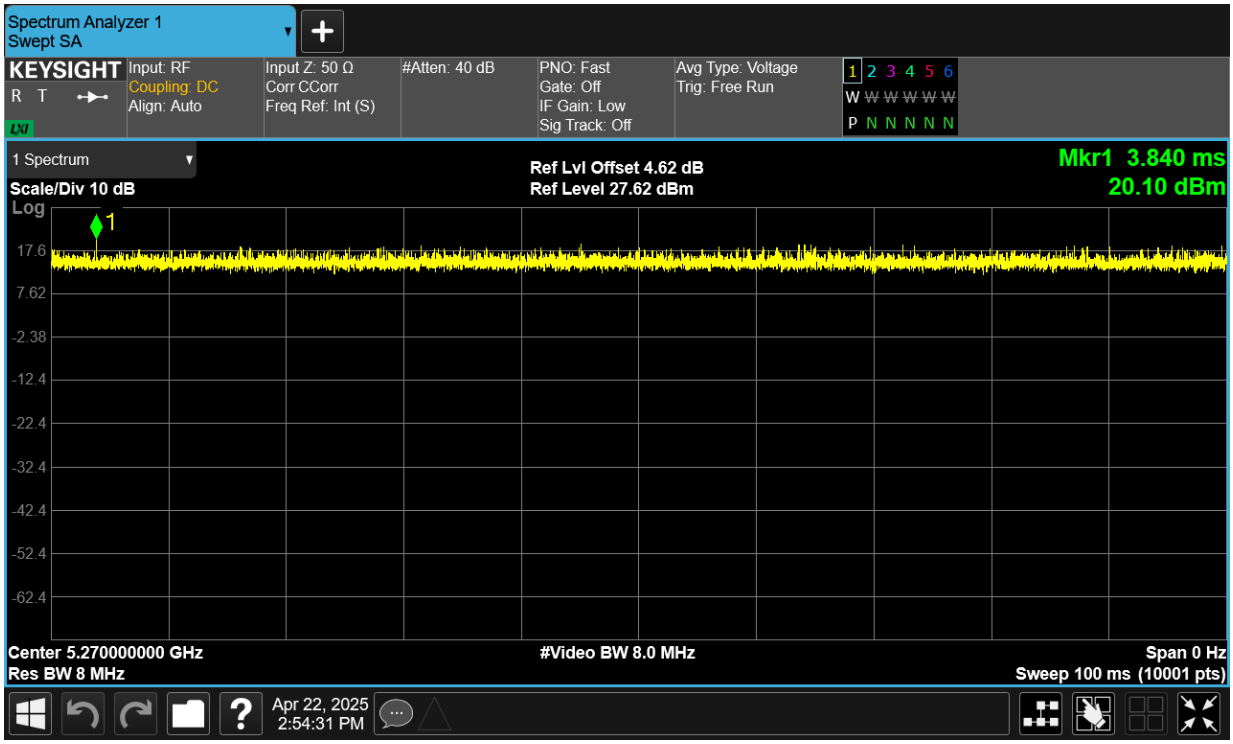
Duty Cycle NVNT n20 5280MHz Ant3



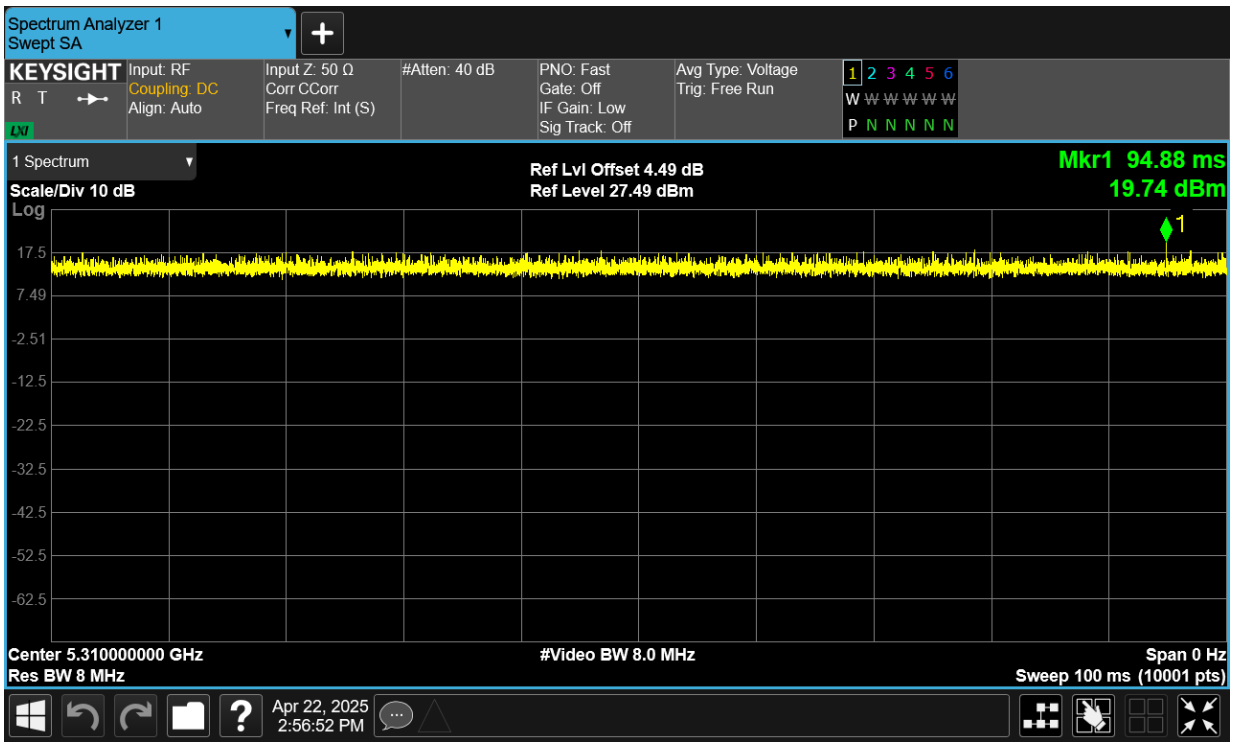
Duty Cycle NVNT n20 5320MHz Ant3



Duty Cycle NVNT n40 5270MHz Ant3



Duty Cycle NVNT n40 5310MHz Ant3



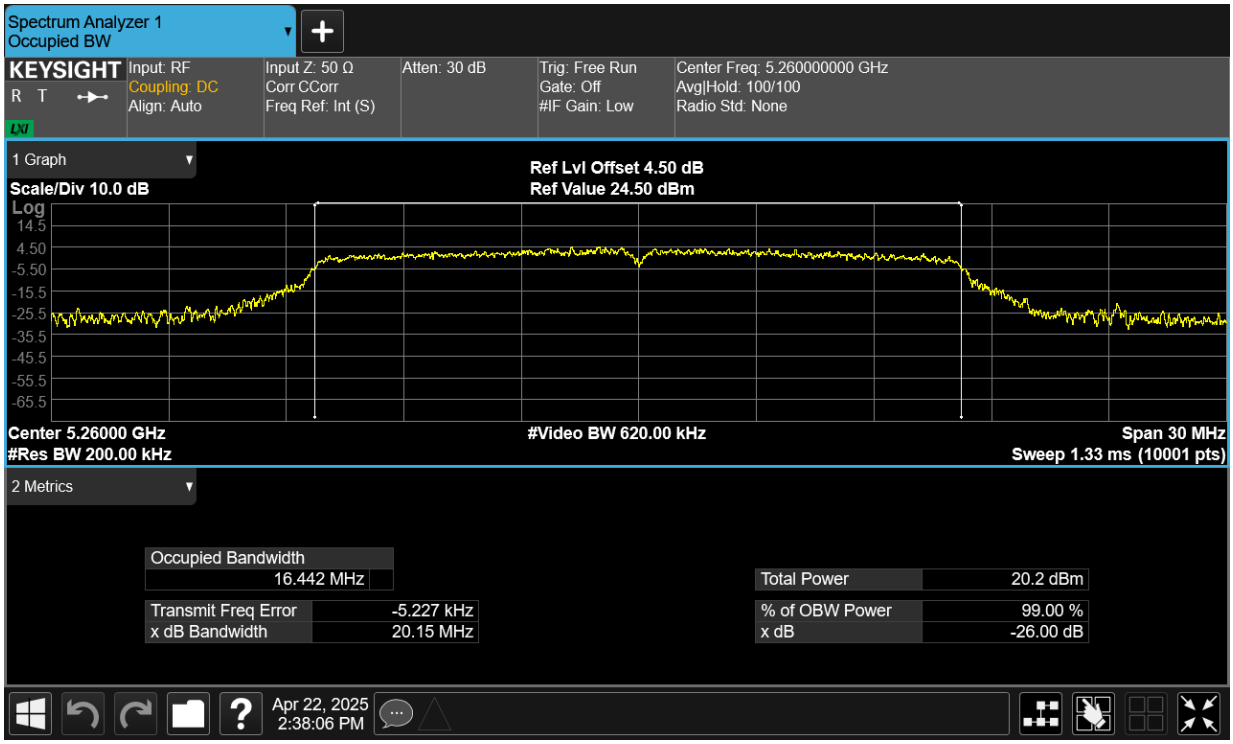
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant3	14.15	0	14.15	24	Pass
NVNT	a	5280	Ant3	14.04	0	14.04	24	Pass
NVNT	a	5320	Ant3	14.06	0	14.06	24	Pass
NVNT	ac20	5260	Ant3	12.82	0	12.82	24	Pass
NVNT	ac20	5280	Ant3	12.8	0	12.8	24	Pass
NVNT	ac20	5320	Ant3	12.69	0	12.69	24	Pass
NVNT	ac40	5270	Ant3	12.23	0	12.23	24	Pass
NVNT	ac40	5310	Ant3	13.01	0	13.01	24	Pass
NVNT	ac80	5290	Ant3	11.54	0	11.54	24	Pass
NVNT	n20	5260	Ant3	12.85	0	12.85	24	Pass
NVNT	n20	5280	Ant3	13.13	0	13.13	24	Pass
NVNT	n20	5320	Ant3	12.75	0	12.75	24	Pass
NVNT	n40	5270	Ant3	12.73	0	12.73	24	Pass
NVNT	n40	5310	Ant3	13.08	0	13.08	24	Pass

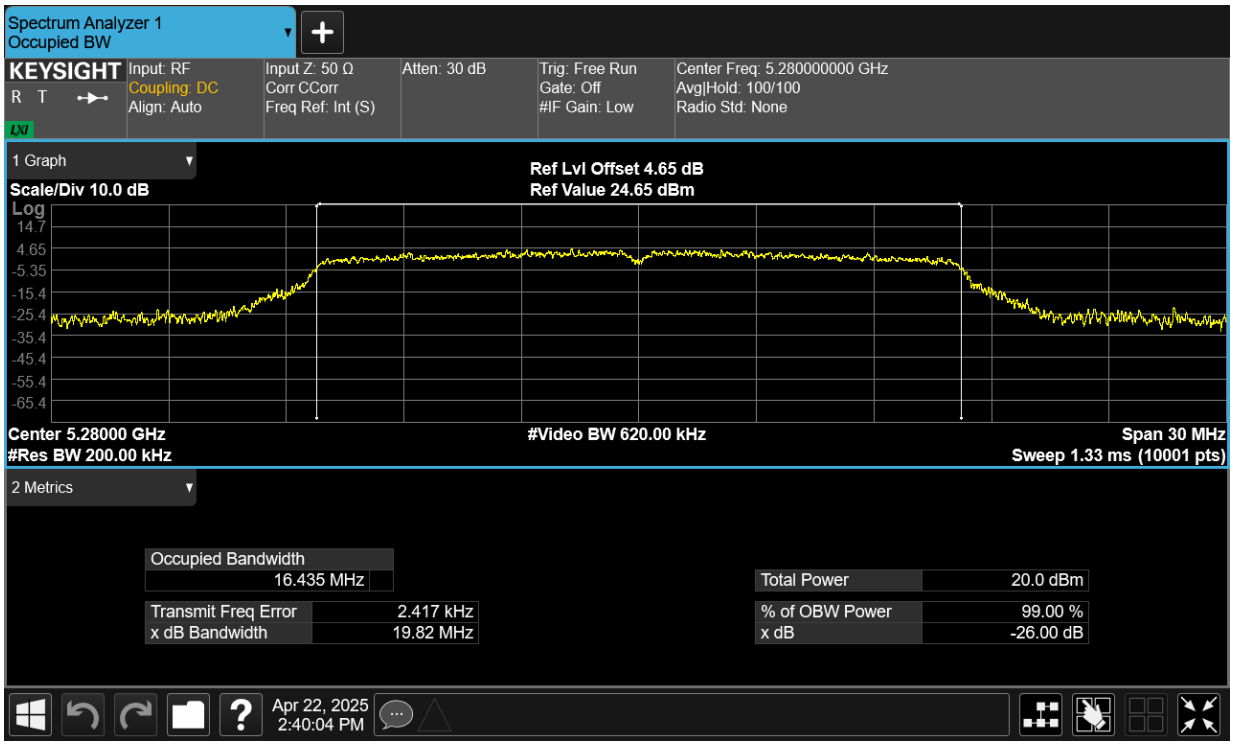
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant3	16.442
NVNT	a	5280	Ant3	16.435
NVNT	a	5320	Ant3	16.461
NVNT	ac20	5260	Ant3	17.555
NVNT	ac20	5280	Ant3	17.566
NVNT	ac20	5320	Ant3	17.578
NVNT	ac40	5270	Ant3	35.971
NVNT	ac40	5310	Ant3	36.01
NVNT	ac80	5290	Ant3	75.19
NVNT	n20	5260	Ant3	17.592
NVNT	n20	5280	Ant3	17.553
NVNT	n20	5320	Ant3	17.584
NVNT	n40	5270	Ant3	35.951
NVNT	n40	5310	Ant3	35.994

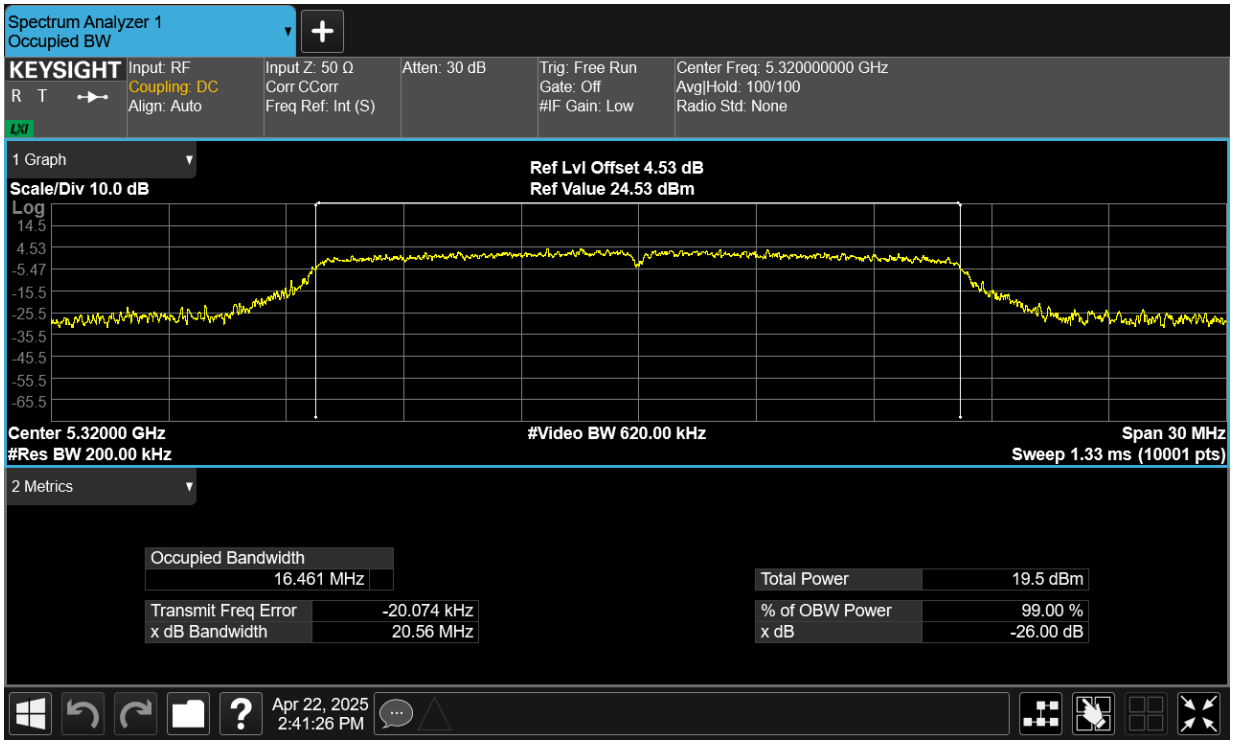
Test Graphs
OBW NVNT a 5260MHz Ant3



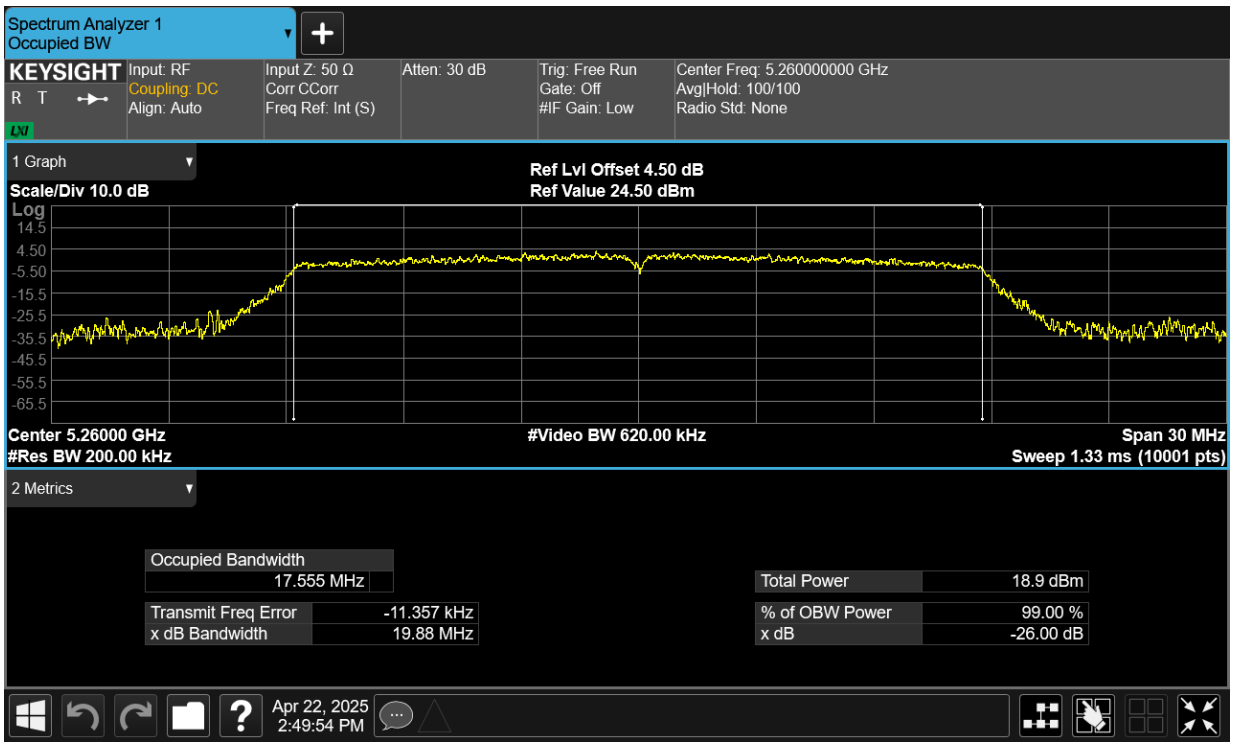
OBW NVNT a 5280MHz Ant3



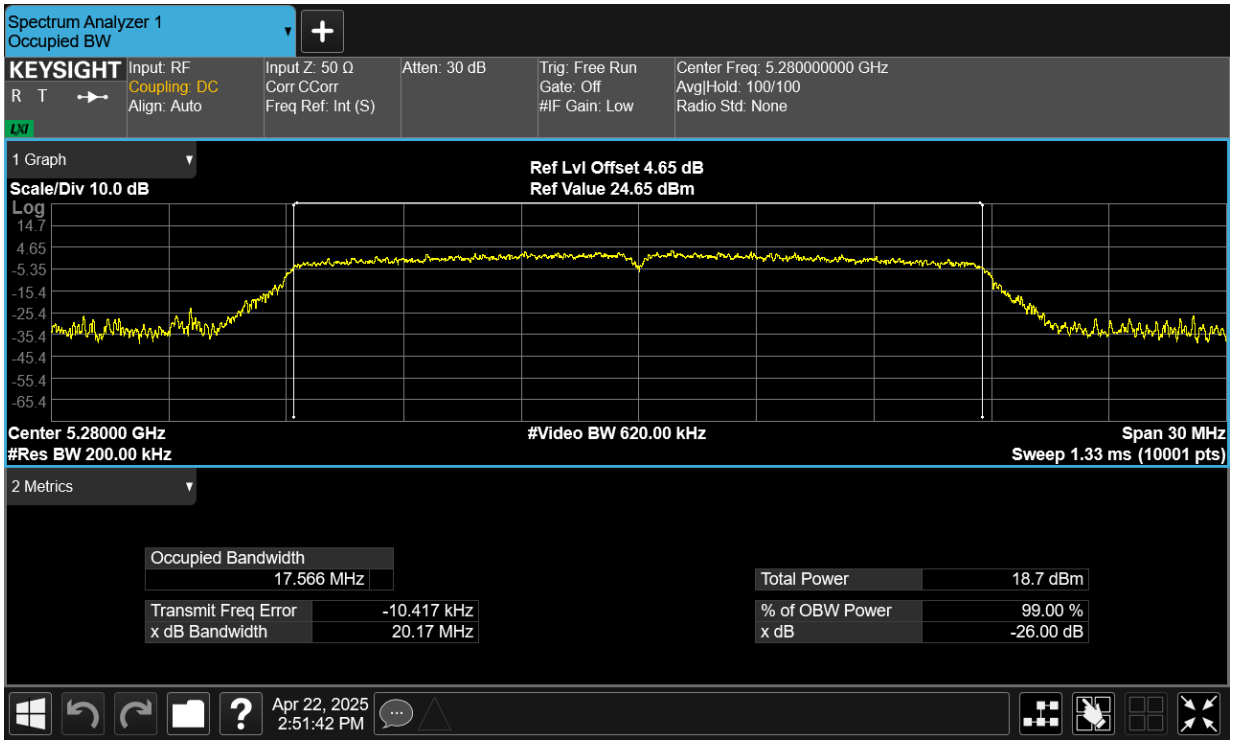
OBW NVNT a 5320MHz Ant3



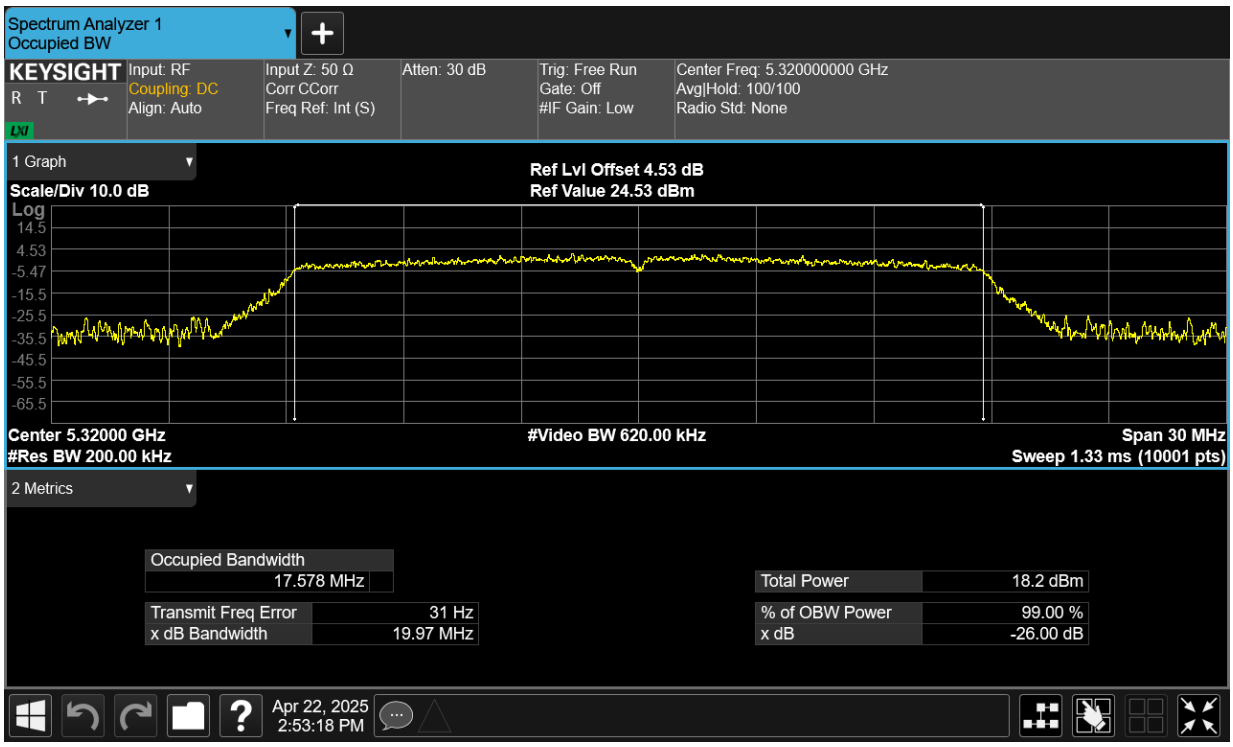
OBW NVNT ac20 5260MHz Ant3



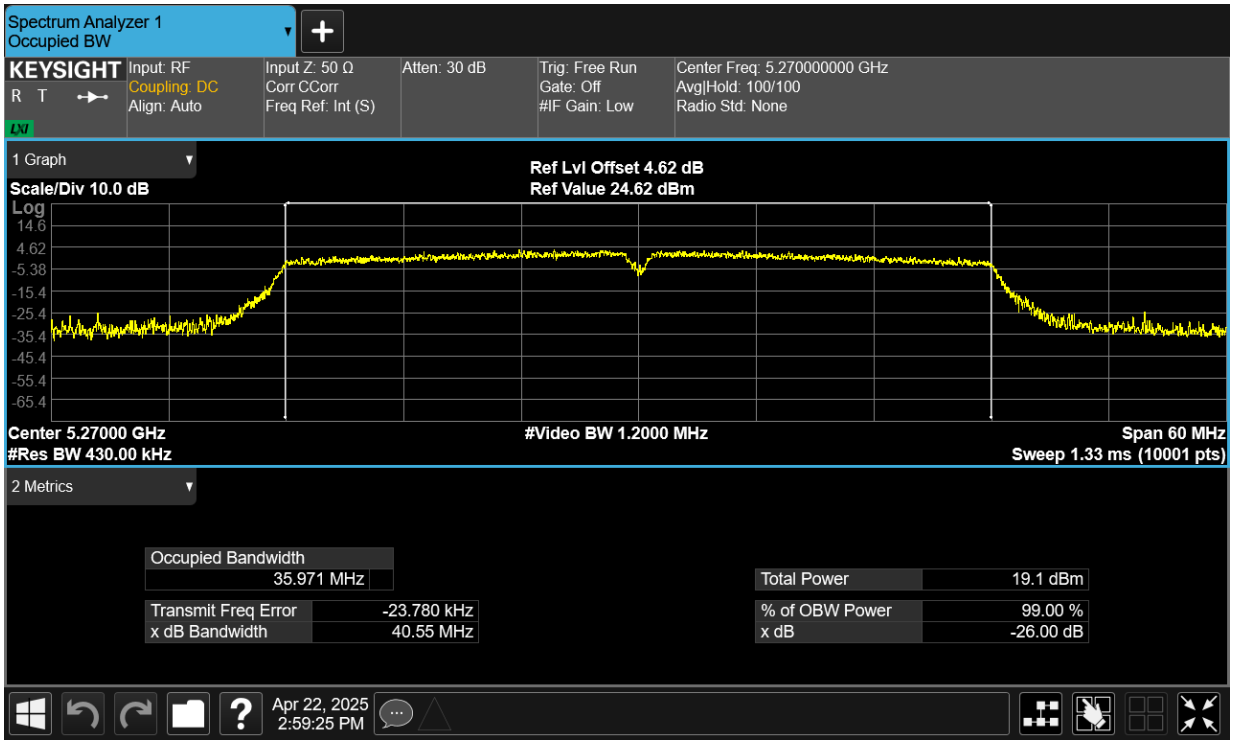
OBW NVNT ac20 5280MHz Ant3



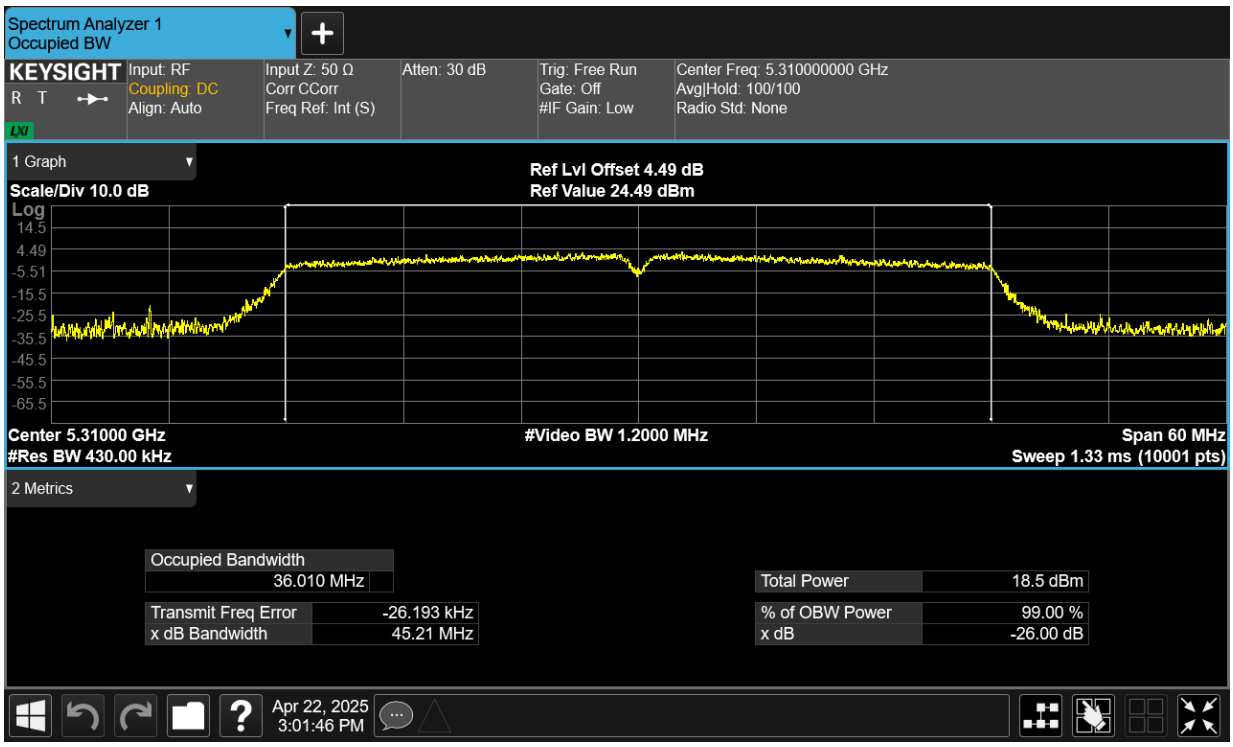
OBW NVNT ac20 5320MHz Ant3



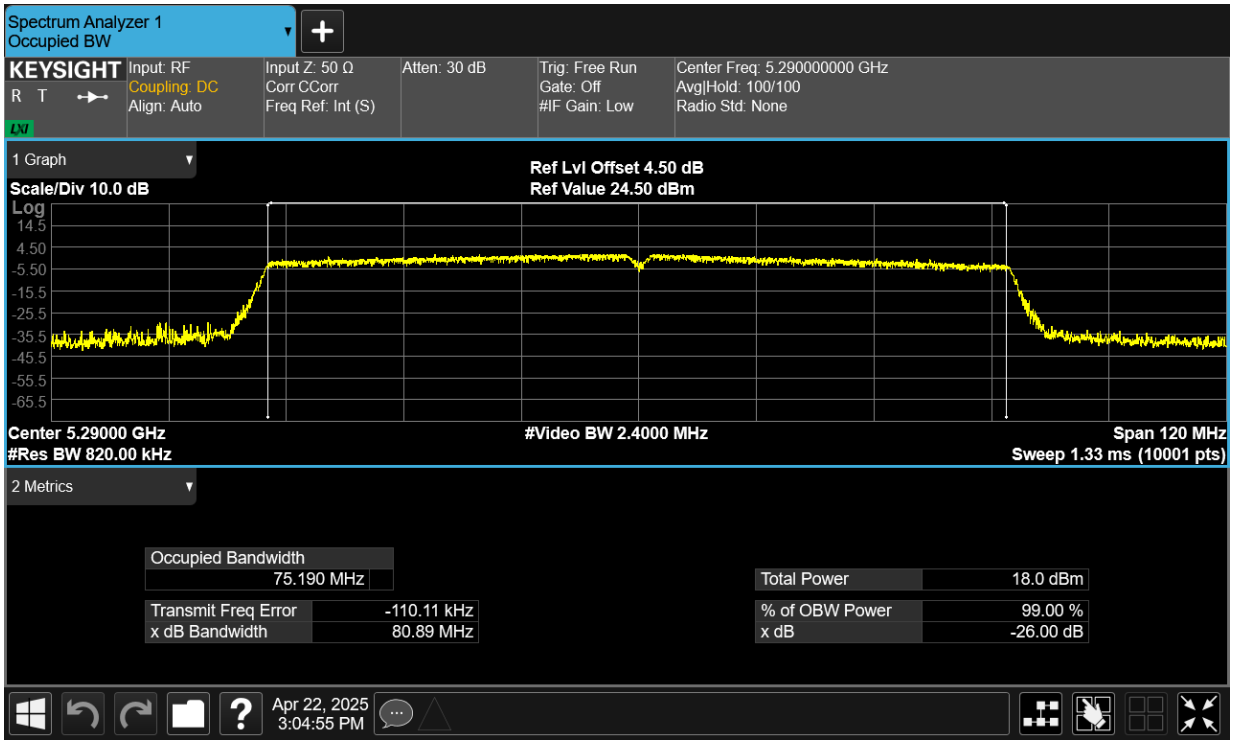
OBW NVNT ac40 5270MHz Ant3



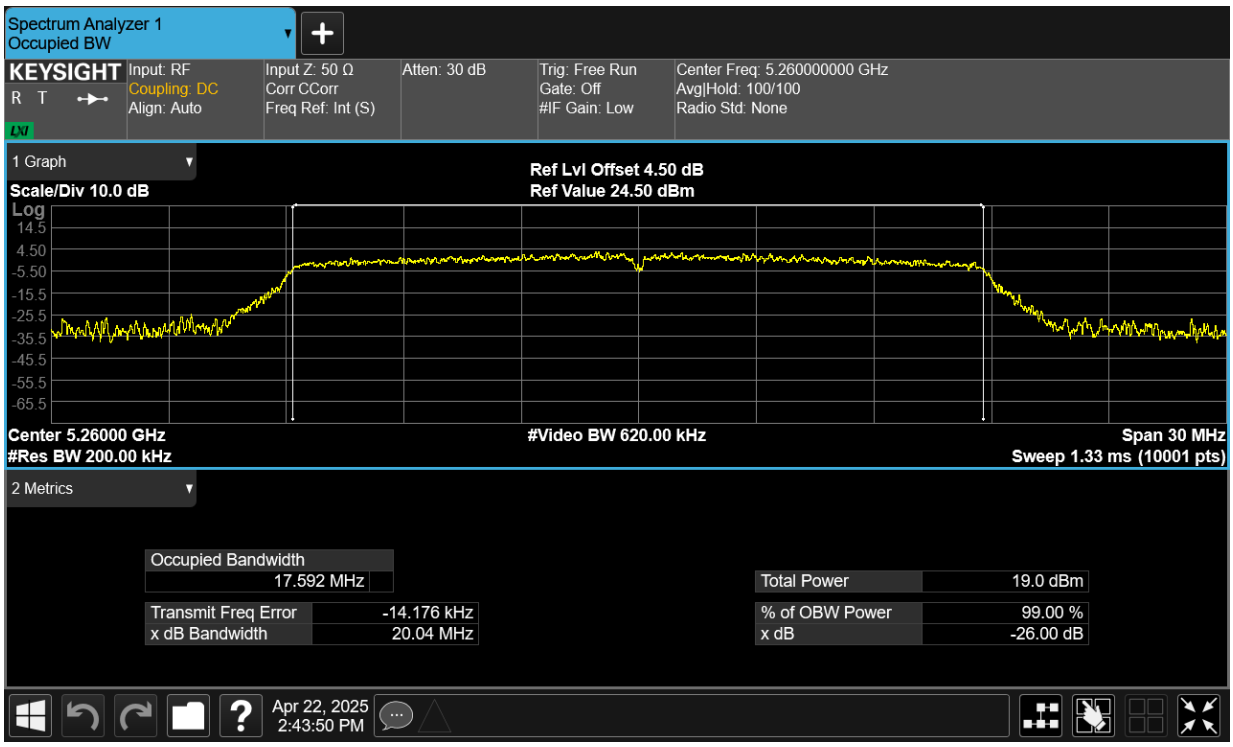
OBW NVNT ac40 5310MHz Ant3



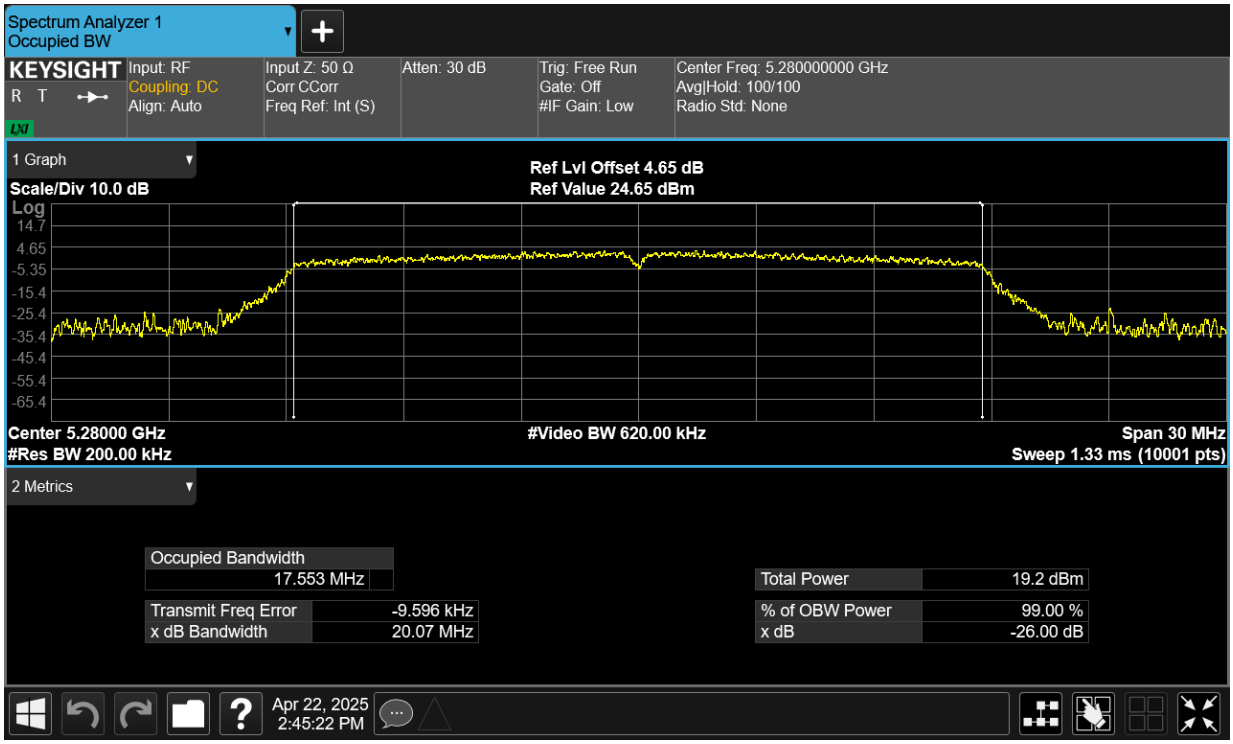
OBW NVNT ac80 5290MHz Ant3



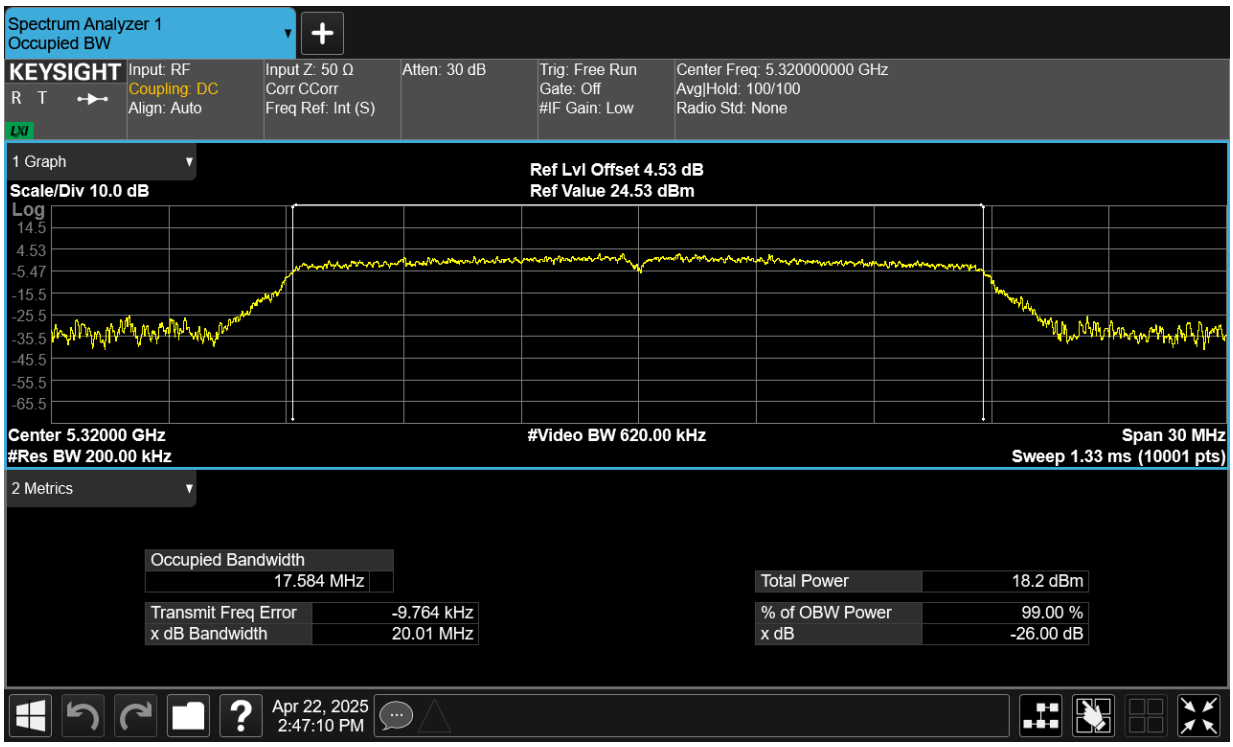
OBW NVNT n20 5260MHz Ant3



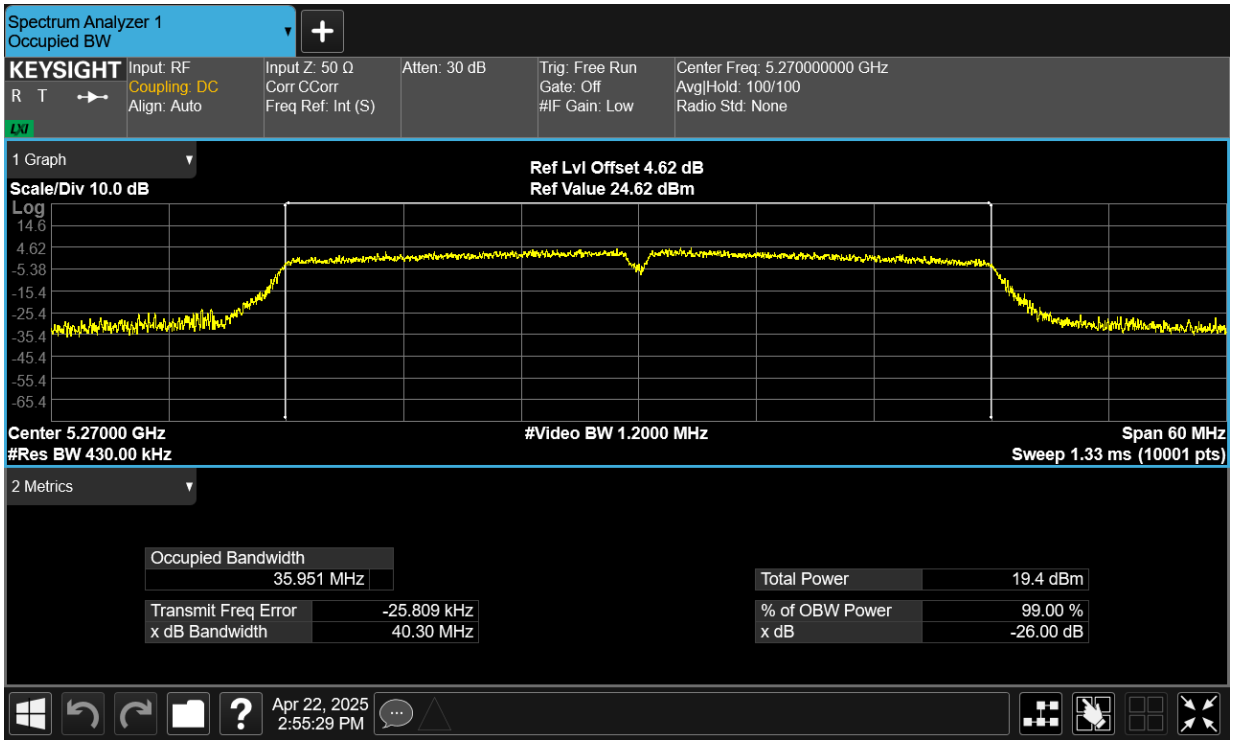
OBW NVNT n20 5280MHz Ant3



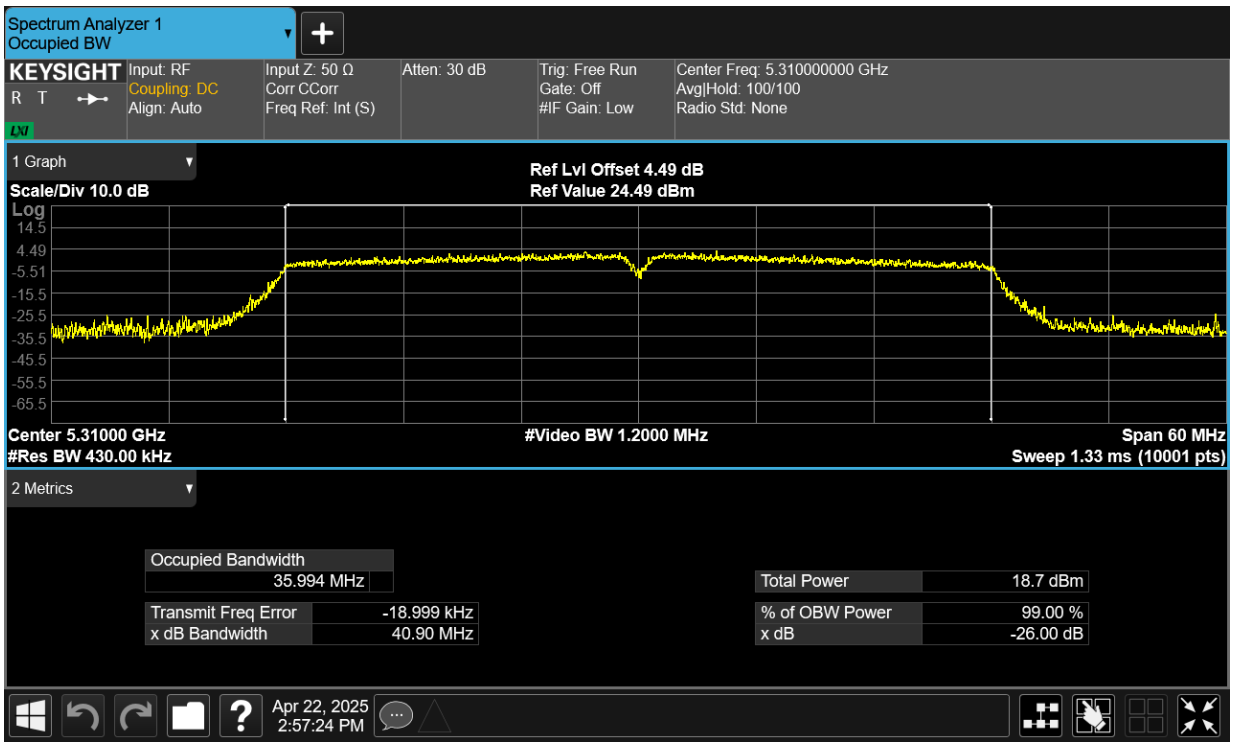
OBW NVNT n20 5320MHz Ant3



OBW NVNT n40 5270MHz Ant3



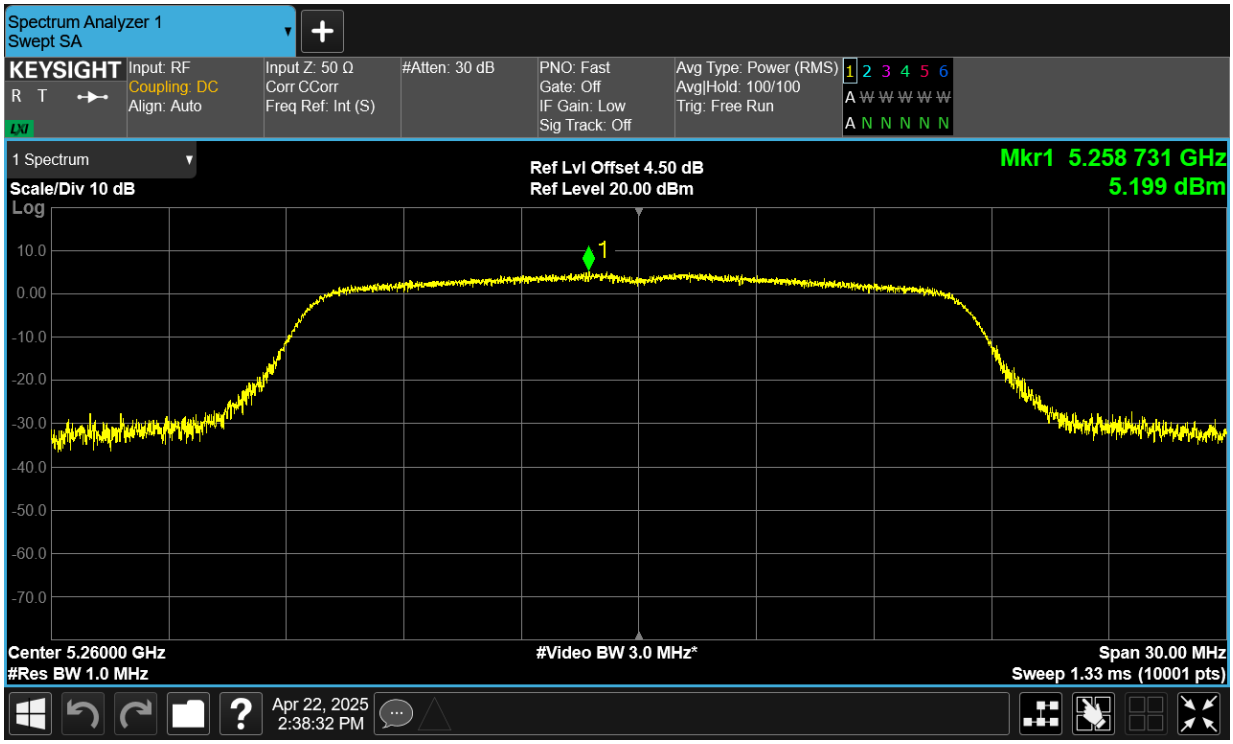
OBW NVNT n40 5310MHz Ant3



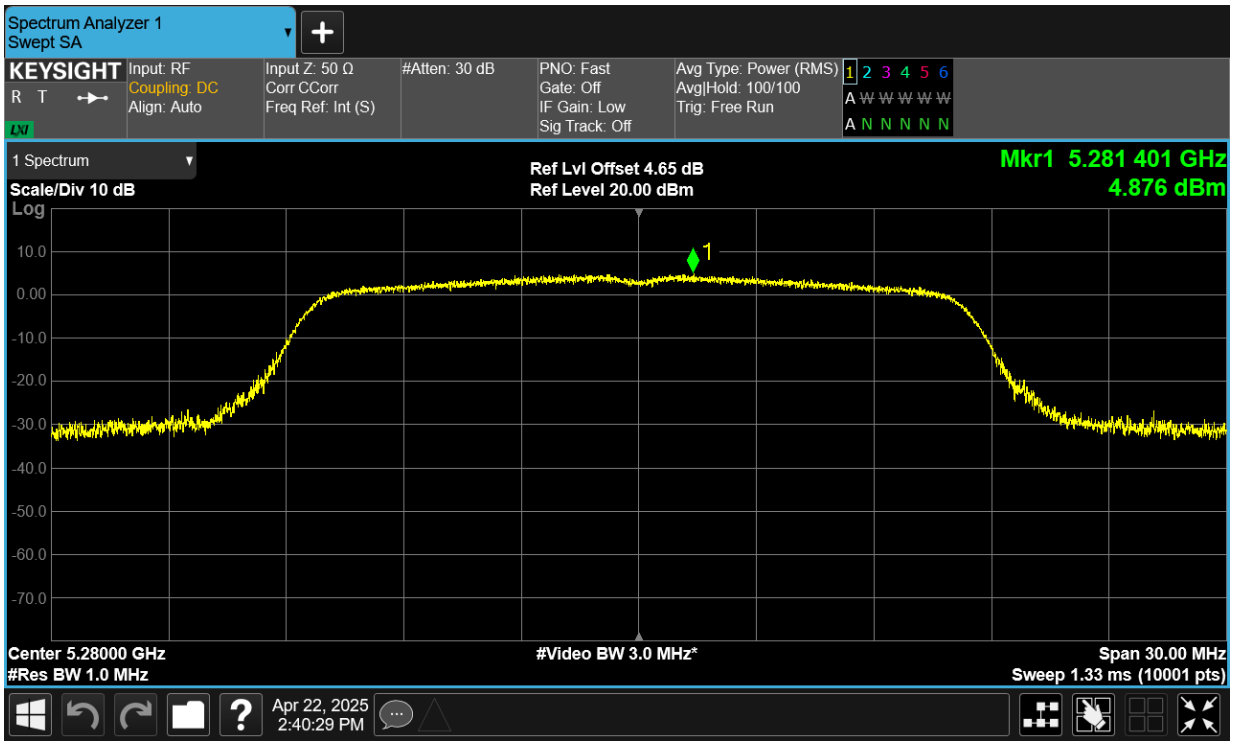
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant3	5.199	11	Pass
NVNT	a	5280	Ant3	4.876	11	Pass
NVNT	a	5320	Ant3	4.404	11	Pass
NVNT	ac20	5260	Ant3	3.636	11	Pass
NVNT	ac20	5280	Ant3	3.598	11	Pass
NVNT	ac20	5320	Ant3	2.804	11	Pass
NVNT	ac40	5270	Ant3	0.553	11	Pass
NVNT	ac40	5310	Ant3	0.388	11	Pass
NVNT	ac80	5290	Ant3	-4.21	11	Pass
NVNT	n20	5260	Ant3	3.497	11	Pass
NVNT	n20	5280	Ant3	4.002	11	Pass
NVNT	n20	5320	Ant3	2.976	11	Pass
NVNT	n40	5270	Ant3	0.982	11	Pass
NVNT	n40	5310	Ant3	0.268	11	Pass

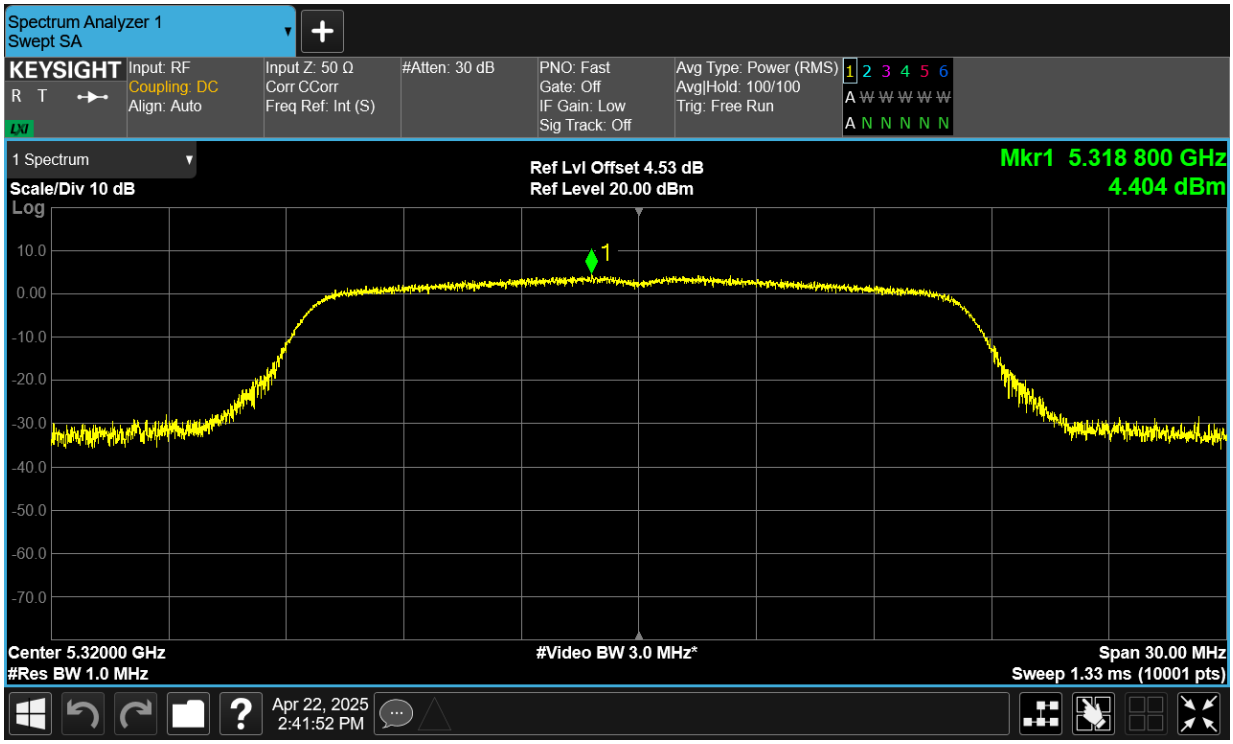
Test Graphs
PSD NVNT a 5260MHz Ant3



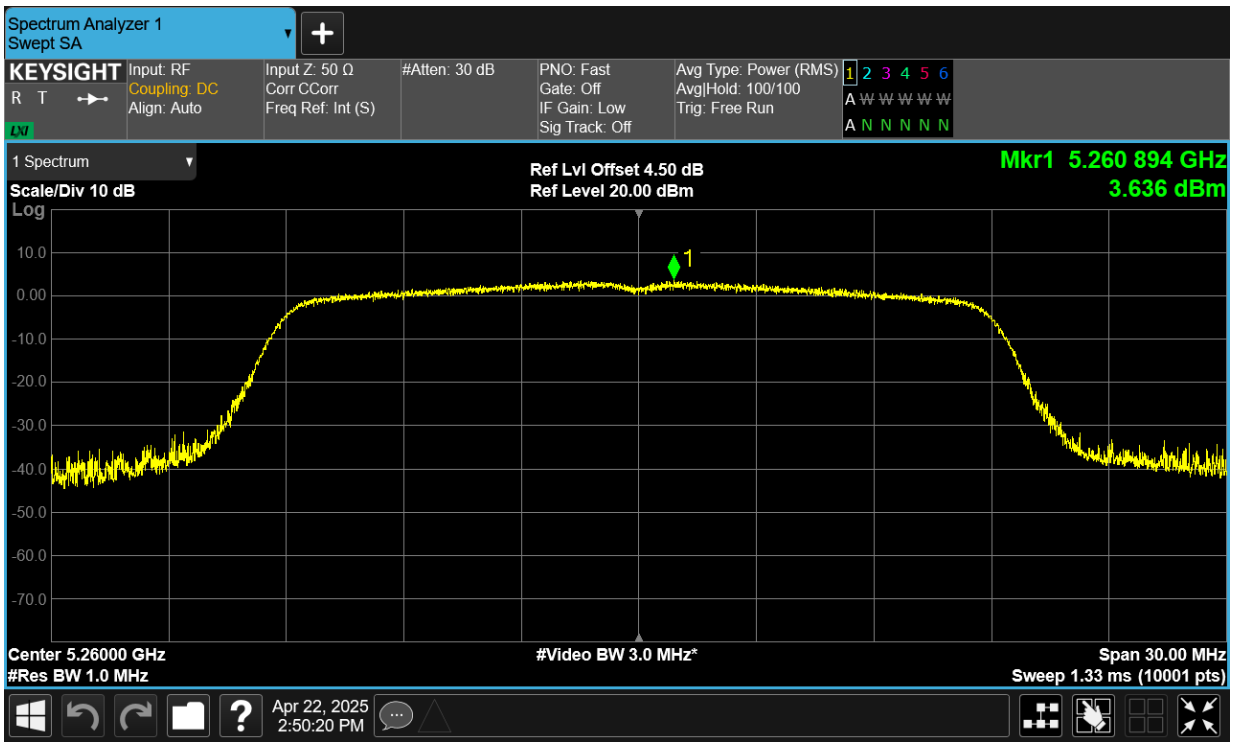
PSD NVNT a 5280MHz Ant3



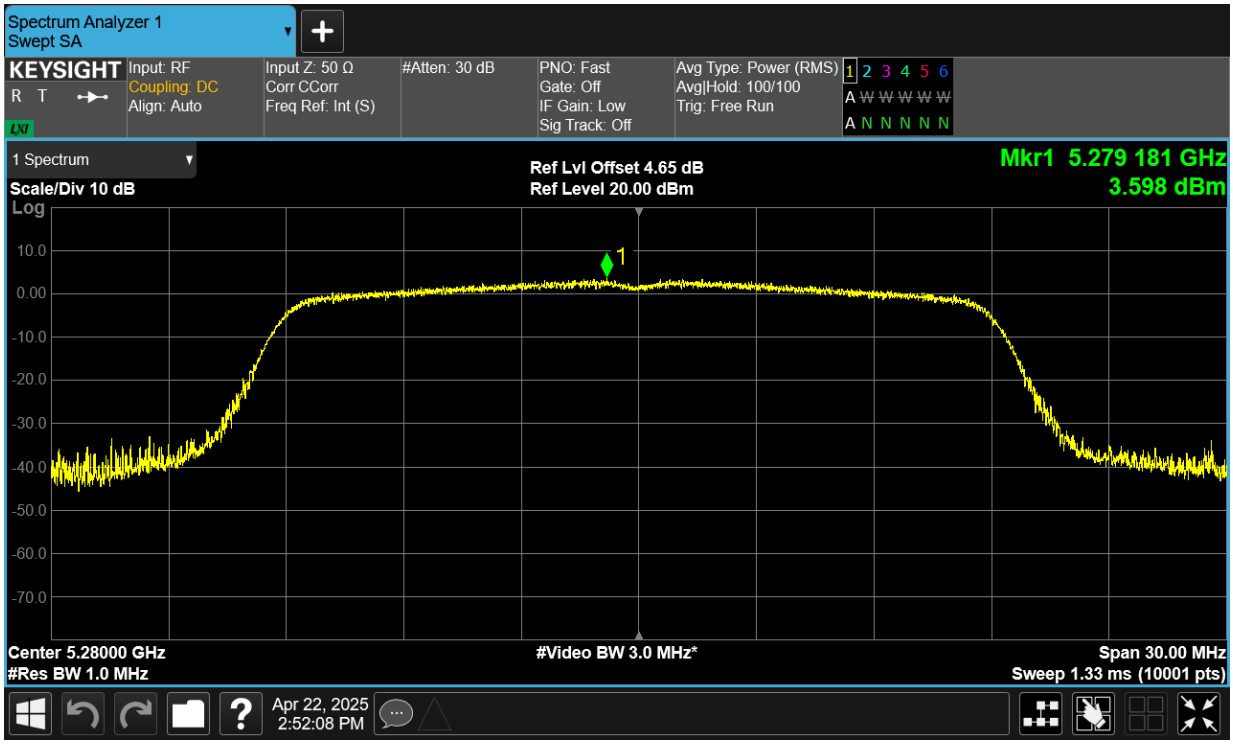
PSD NVNT a 5320MHz Ant3



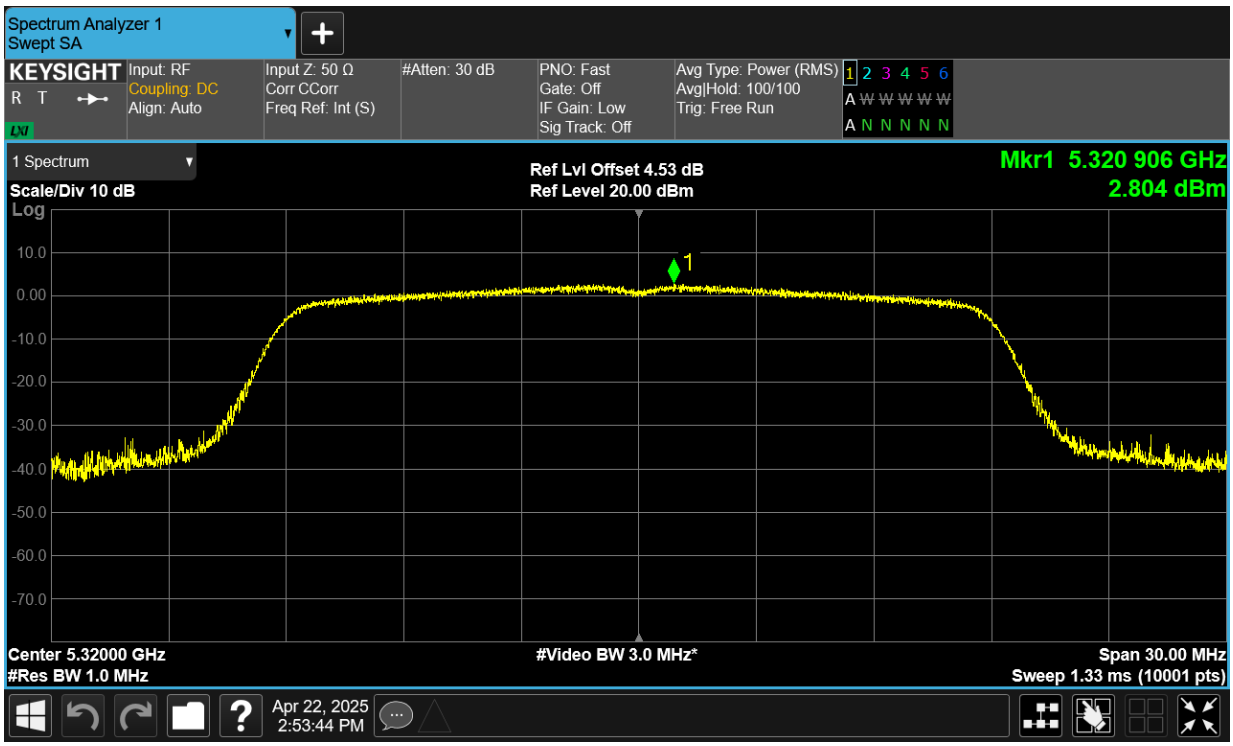
PSD NVNT ac20 5260MHz Ant3



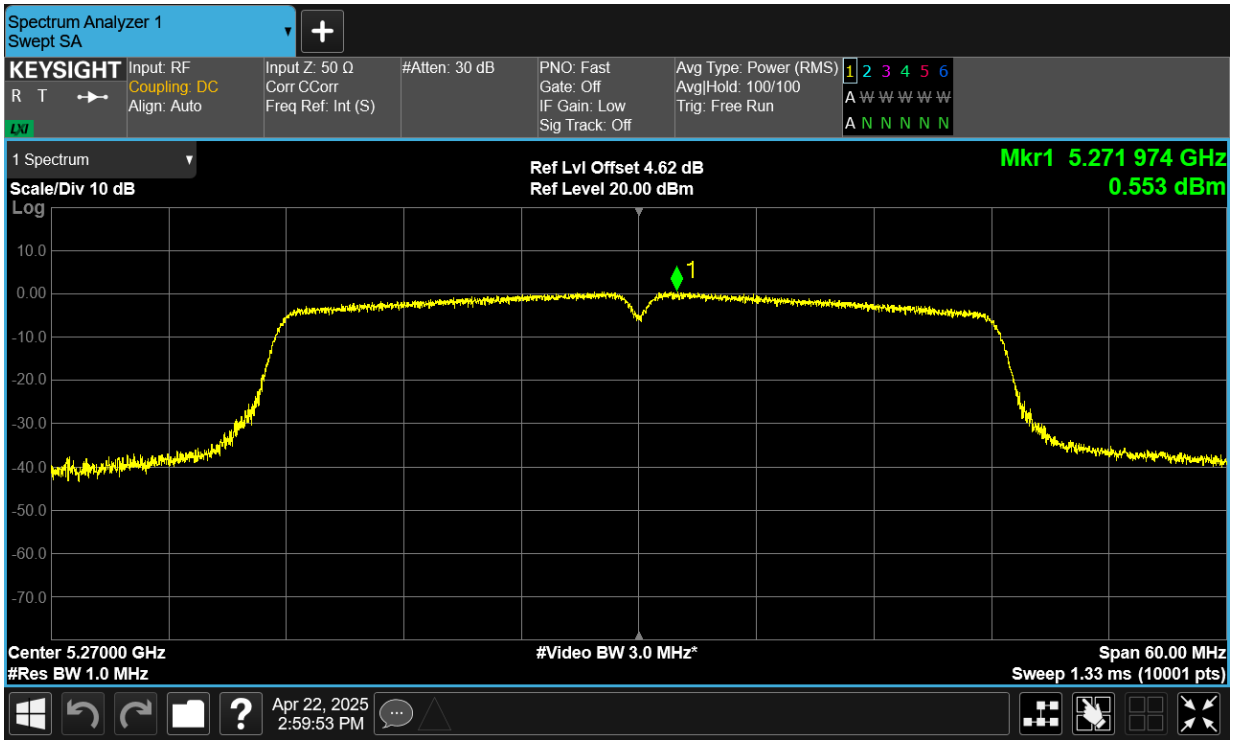
PSD NVNT ac20 5280MHz Ant3



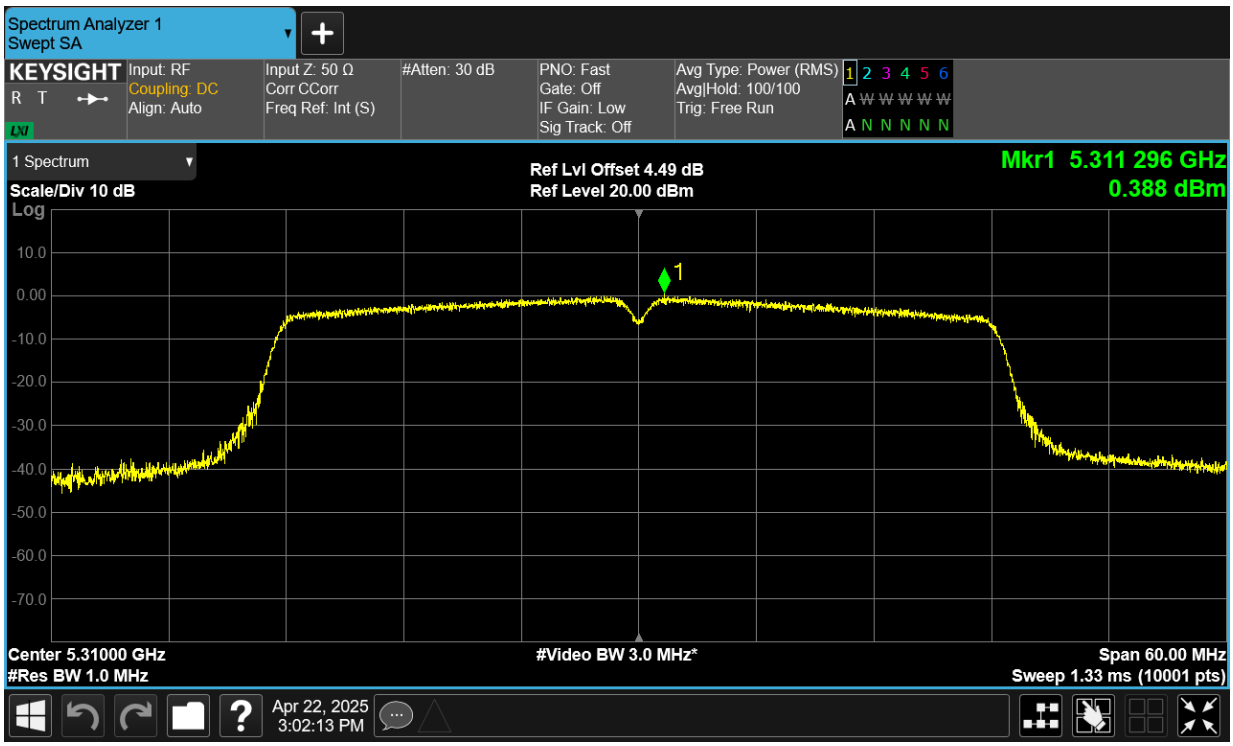
PSD NVNT ac20 5320MHz Ant3



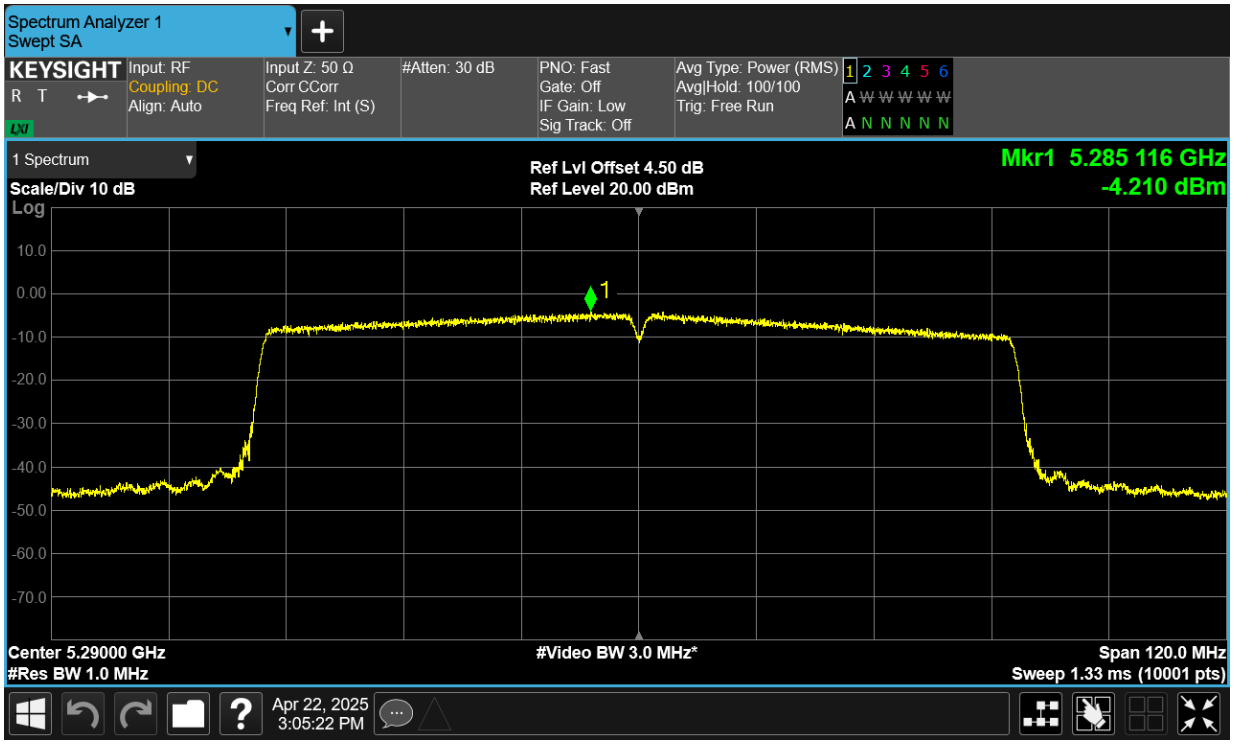
PSD NVNT ac40 5270MHz Ant3



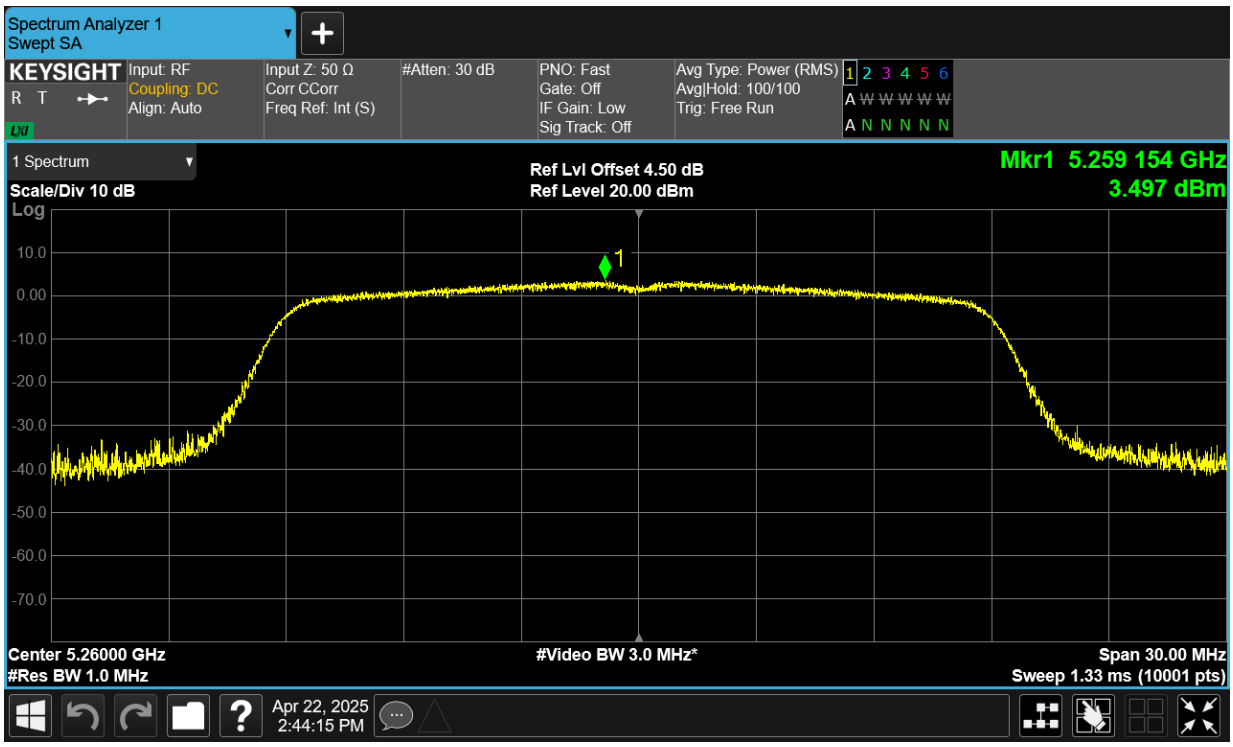
PSD NVNT ac40 5310MHz Ant3



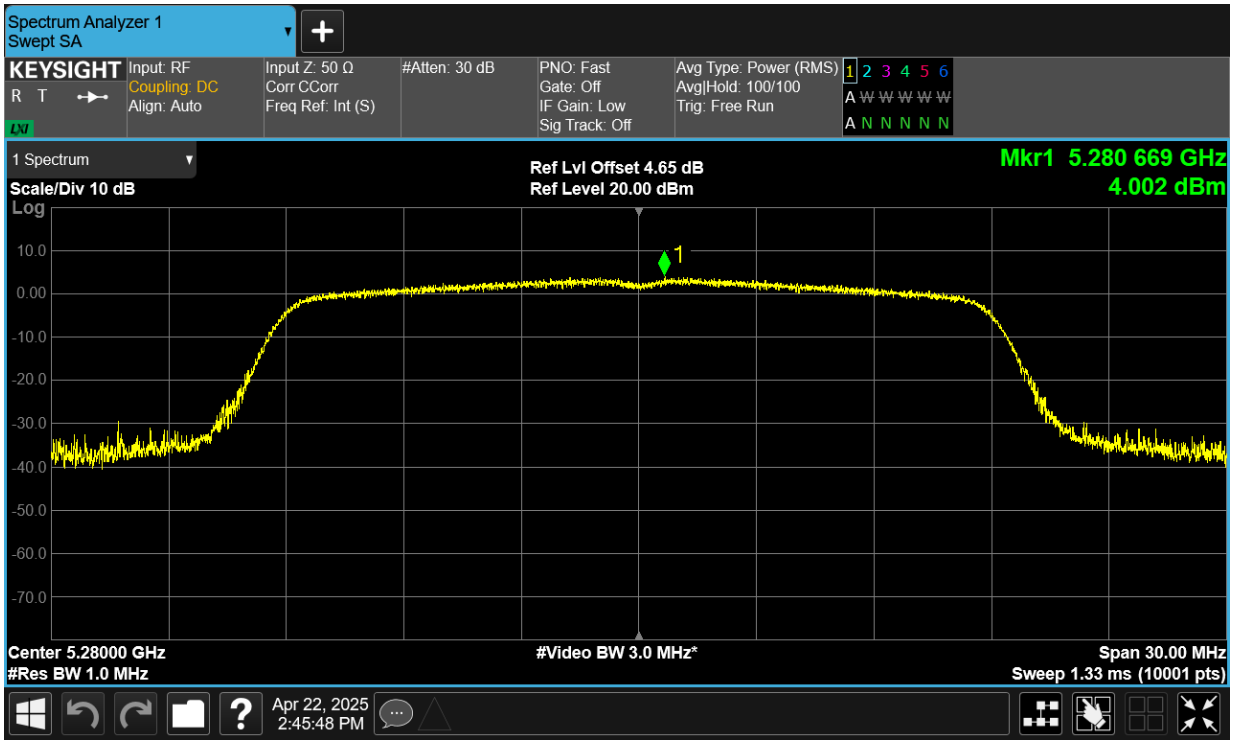
PSD NVNT ac80 5290MHz Ant3



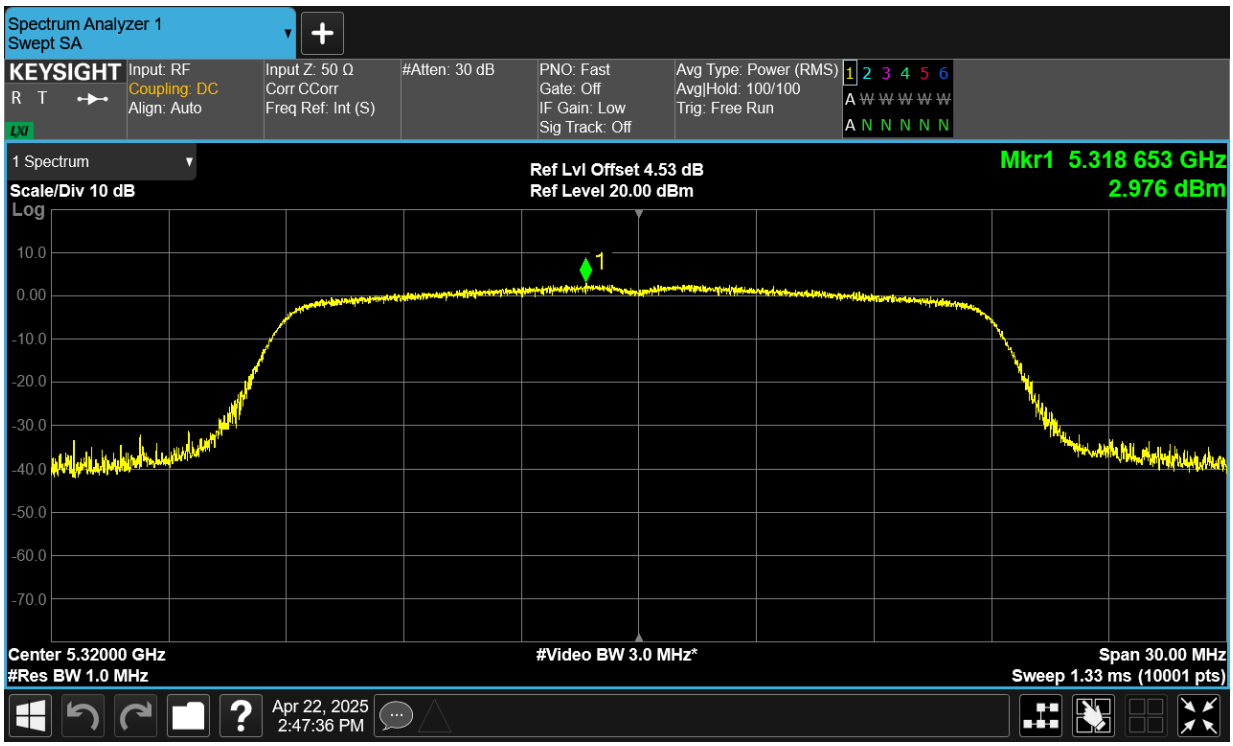
PSD NVNT n20 5260MHz Ant3



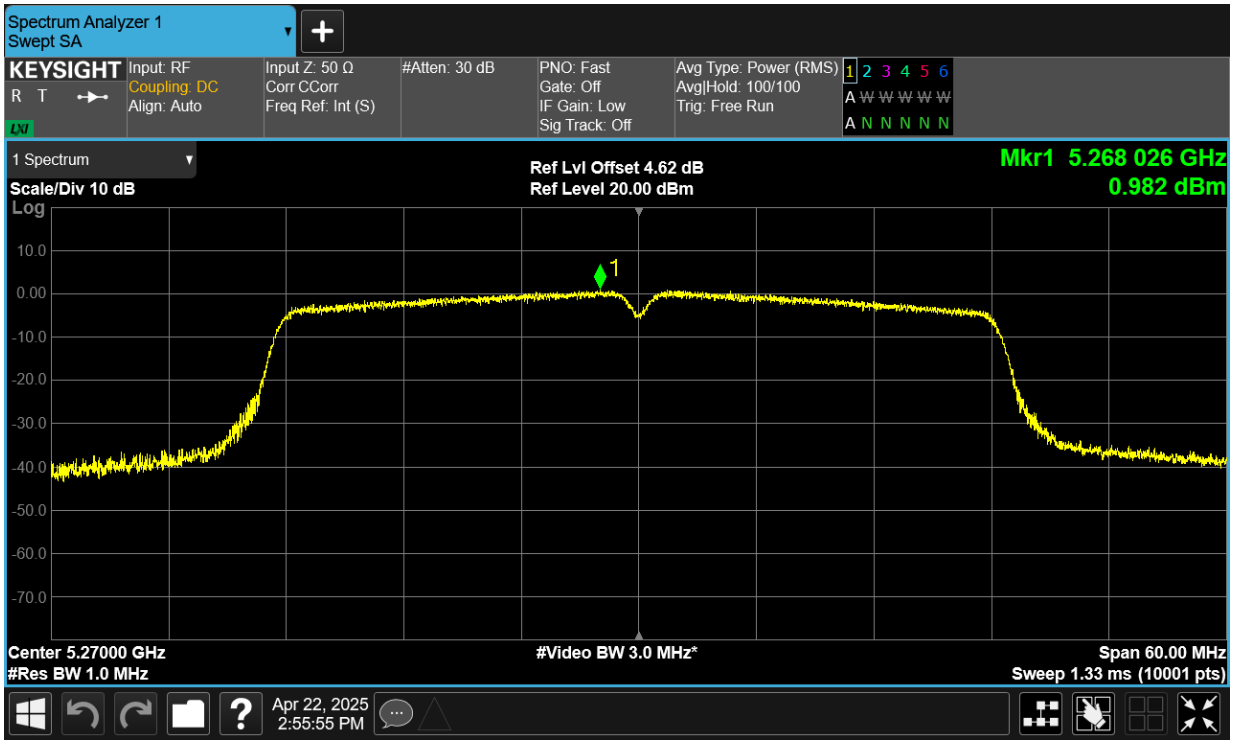
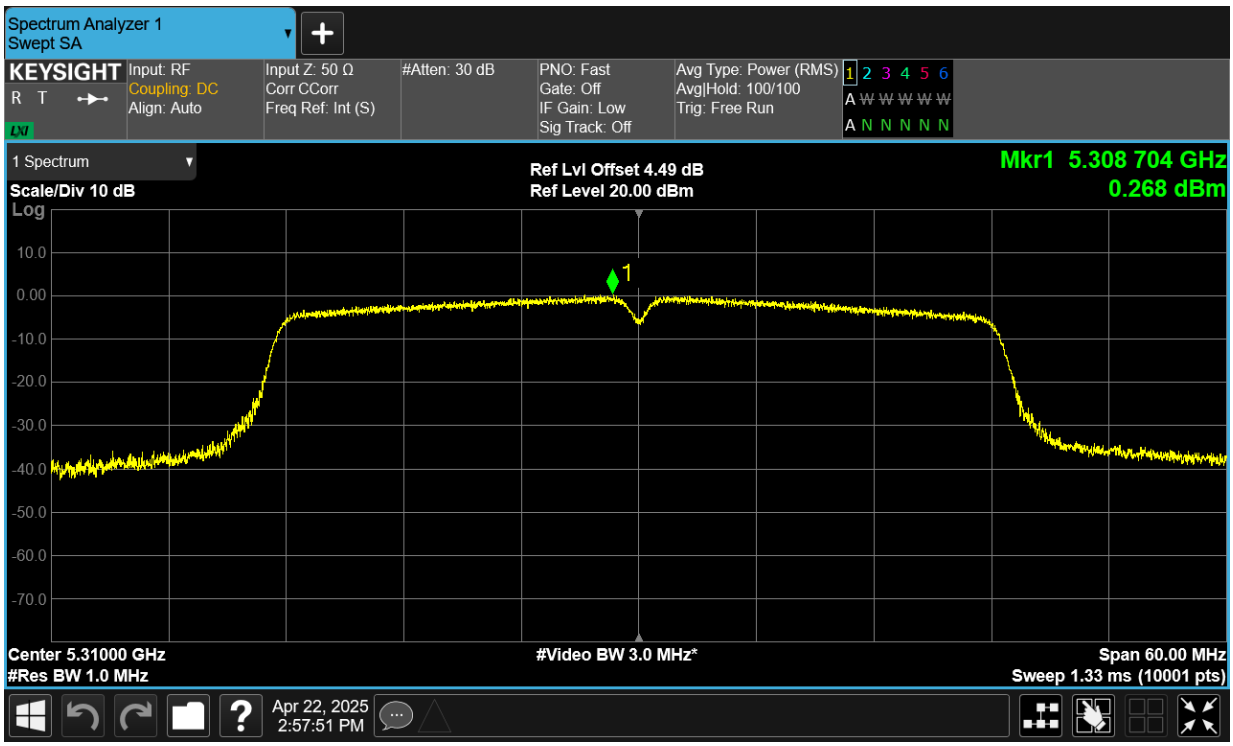
PSD NVNT n20 5280MHz Ant3



PSD NVNT n20 5320MHz Ant3



PSD NVNT n40 5270MHz Ant3



PSD NVNT n40 5310MHz Ant3